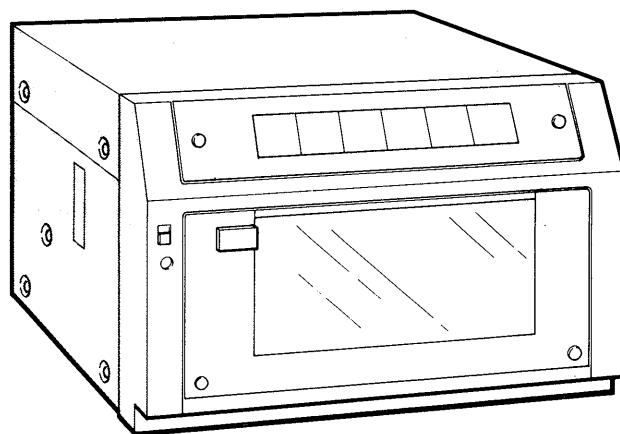


CDK-3000P^{II}

SERVICE MANUAL

UK Model



SPECIFICATIONS

Disc holding capacity	Maximum 60
Disc exchange	Front loading random exchange system
Access time	Approx. 20 seconds
Power requirements	240 V AC, 50Hz/60HZ
Power consumption	32W
Dimensions	500 x 320 x 380 mm (w/h/d) (19 ³ / ₄ x 12 ⁵ / ₈ x 15 inches)
Weight	Approx. 22 kg (49 lbs)
Supplied accessories	Power cable (1) Connecting cable; (Dsub 9P ↔ 15P) (1) (Dsub 25P ↔ 25P) (1) Ground wire with terminal (1) Key (2)

AUTO DISC LOADER
SONY[®]

AUD



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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

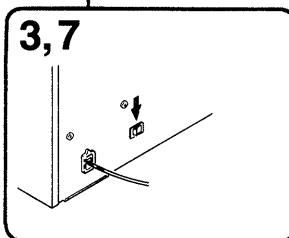
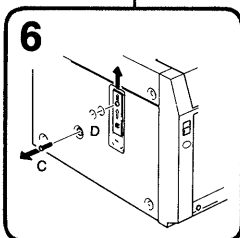
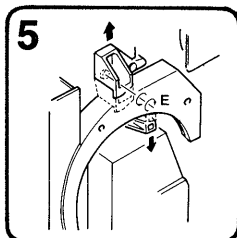
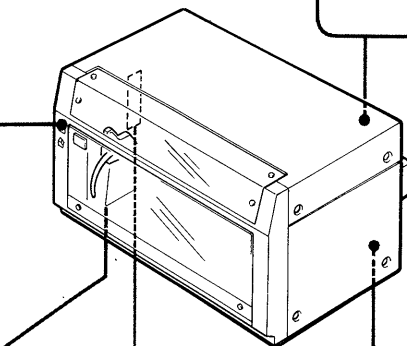
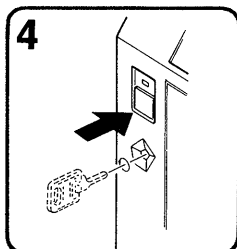
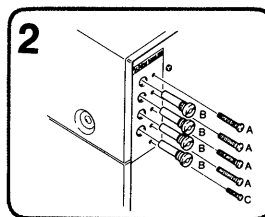
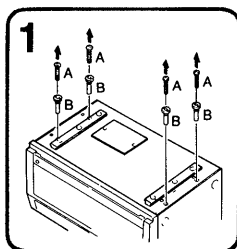
1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 44.6 μ W*

* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

NOTES ON INSTALLATION

Removing Shipping Screws

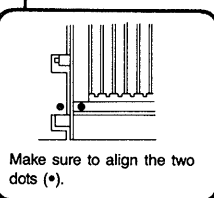
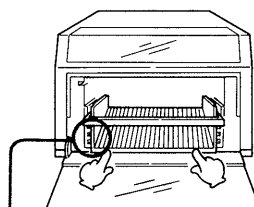
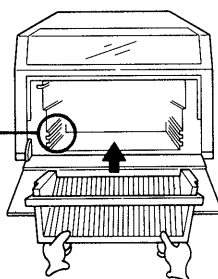
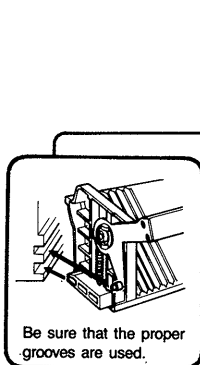


- 1** Turn the bottom side of the casing up and remove the four screws (A) and four stoppers (B).
- 2** Carefully turn the casing back upright. Insert screws (A) and stoppers (B) into the screws holder. Screw (C) from step (6) should also be inserted into the screws holder.
- 3** Connect the power cord to an AC outlet and turn on the power.
- 4** Insert the supplied key into the keyhole and turn counterclockwise until the indicator lights. Press the door open button to release the door lock, then manually open the door until it lies horizontally. The door open button will not operate unless the indicator is lit.
- 5** Loosen screw (E) and slide the shipping lock in the direction indicated by the arrow until it stops, then tighten screw (E). For installation, refer to the back side of this sheet.
- 6** Remove screw (C) and insert it into the shipping screws holder in the rear panel. Loosen screw (D) and slide the shipping lock in the direction indicated by the arrow until it stops, then tighten screw (D).
- 7** After completing this operation, turn off the power once and turn it on again to initialize the internal microprocessor.

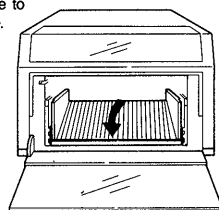
How to Place Discs

- 1** Insert the supplied key into the keyhole and turn counterclockwise until the indicator lights. Press the door open button to release the door lock, then manually open the door until it lies horizontally. The door open button will not operate unless the indicator is lit.

- 2** Slide the CD case into the disc loader.

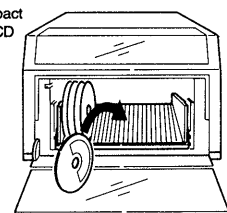


- 3** Lower the handle to lock it into place.



- 4** Place the compact discs into the CD case.

Be sure to place them so that the labels face right.



- 5** Close the door until it clicks (the door is locked.)

- 6** Insert the key and turn clockwise until the indicator light goes off. Be sure to preserve the key.

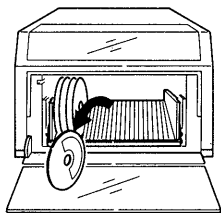
Precautions

- Make sure the door is completely closed. If the door is open, the safety device prevents the unit from operating.
- Reinforced glass is used for the door. However, do not kick the door or throw objects at it as it may cause the glass to break.
- Do not move the CD case while a compact disc is still inside. This could cause the disc to break or be damaged.

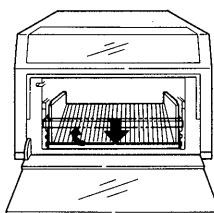
Repacking

Preparation

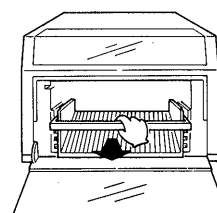
- 1** Open the door and remove all the compact discs.



- 2** Push the handle and release the lock on the CD case. The handle will rise.



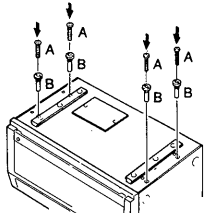
- 3** Hold the handle and pull the CD case out horizontally.



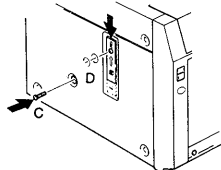
- 4** Remove the handle and close the door completely. Leave the indicator light on.

- 5** Turn off the power and unplug the power cord.

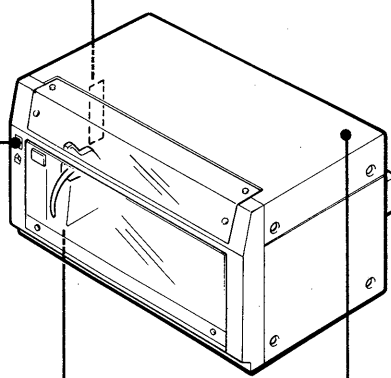
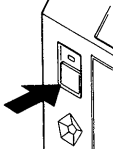
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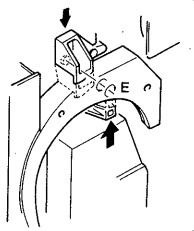
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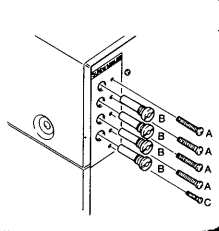
3



5



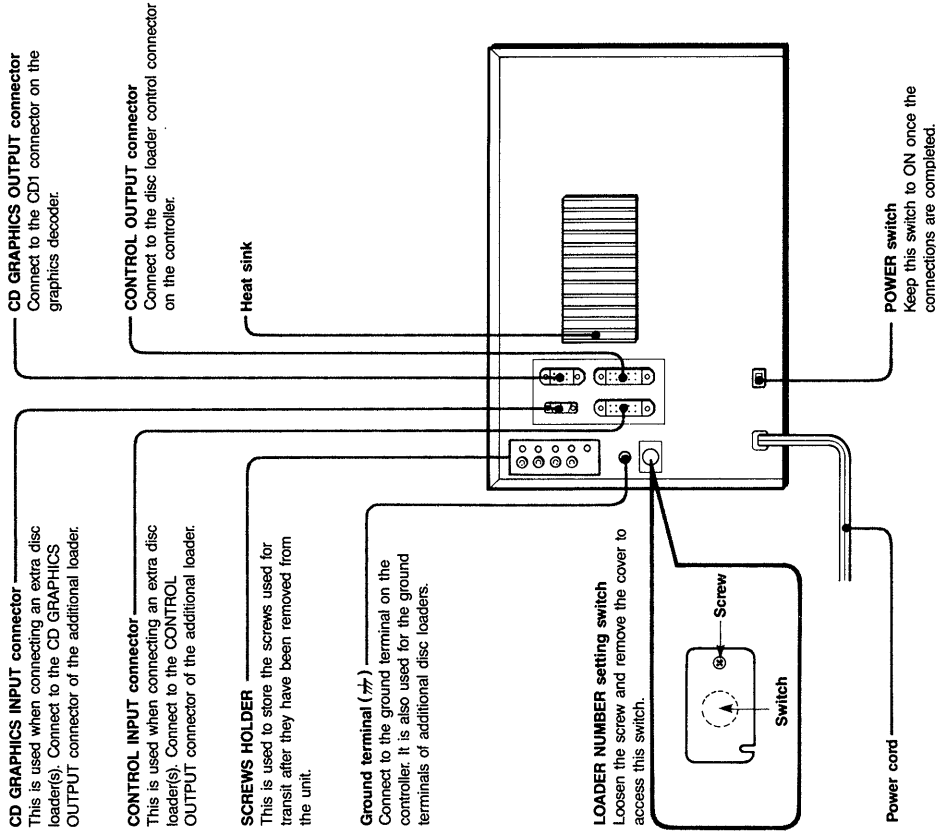
1



- 1** Remove the four shipping screws (A), four stoppers (B), and screw (C) from the screws holder.
- 2** Turn the bottom side of the casing up and attach the four stoppers (B) with four screws (A).
- 3** Turn the casing back upright, and connect the power cord to an AC outlet. Press the door open button to release the door lock. Manually open the door until it lies horizontally, and turn off the power.
- 4** Attach screw (C). Loosen screw (D) and slide the shipping lock down completely, then tighten screw (D).
- 5** Loosen screw (E) and slide the shipping lock in the direction indicated by the arrow until it stops, then tighten screw (E).
- 6** Close the door completely. Go over steps 1 to 5 to see that they have been carried out properly. Finally, pull out the power cord.

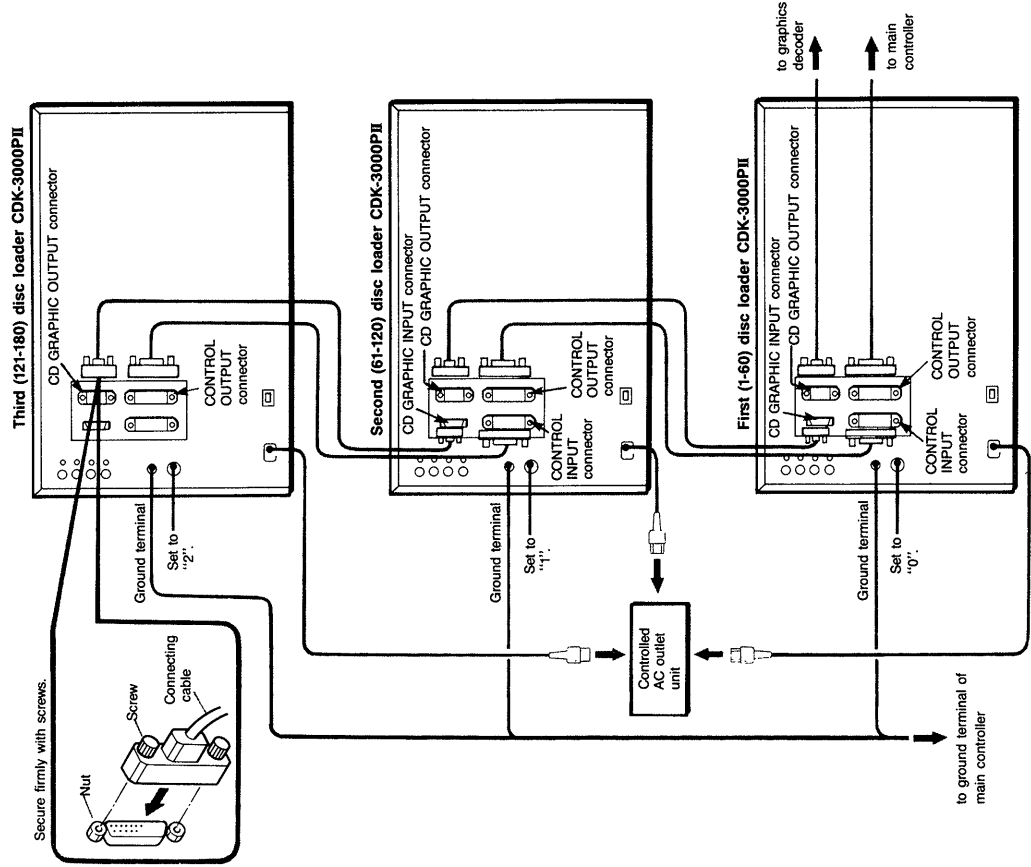
Connectors and Switches

Rear Panel



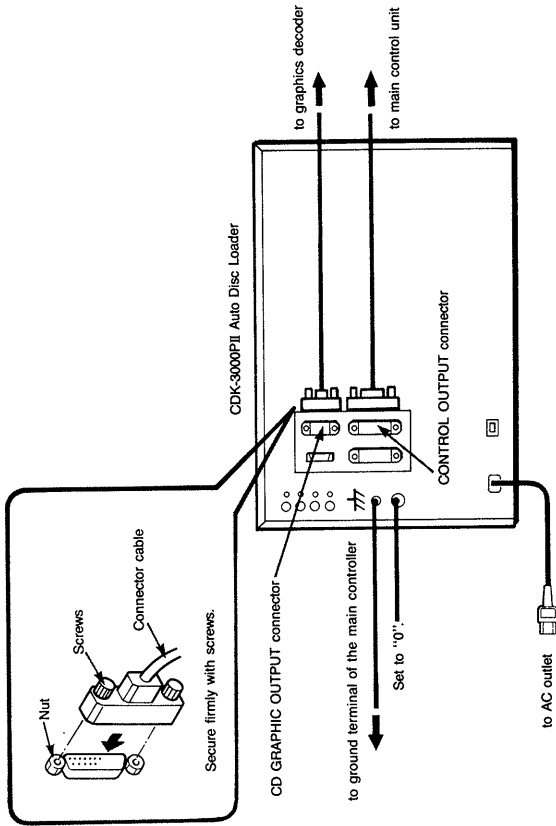
Increasing the Number of Disc Loaders

Connections



Connections

For details on connections for the CDK-3000 system, refer to "CDK-3000 Operation and Connection Card".



Increasing the Number of Disc Loaders

LOADER NUMBER SETTING switch

When increasing the number of disc loaders, select the order in which the disc loaders are to be used. The first disc loader should be set at "0". If disc loaders thereafter are set in the order of "1", "2", etc., the first disc loader can hold up to 60 CDs and the CDs are numbered as follows.

Switch position	CD number
0	1—60
1	61—120
2	121—180
3	180—240
4	241—300
5	301—360
6	361—420
7	421—480
8	481—540
9	541—600
10	601—660
11	661—720
12	721—780
13	781—840
14	841—900
15	901—960

A maximum of 16 disc loaders can be connected, i.e. up to 960 CDs can be set and played.

Notes

- Do not assign the same disc control number to different disc loaders. When the the same number is given to more than one disc loaders, only the unit closest to the controller will function.
- As far as each unit has a unique disc control number, there is no rule for assigning numbers to the disc loaders. However, it is advisable to assign numbers sequentially from the disc loader closest to the controller.
- Use only Sony CD systems and those with compatible connections for additional disc loaders.
- Modification to the loader is required when adding more than four disc loaders.

SECTION 1

OUTLINE

1-1. CIRCUIT DESCRIPTION

1. IC701 (Master Controller)

The master controller controls the overall system while performing data communications with the device controller (IC704), changer controller (IC705), controller and additional changer, etc.

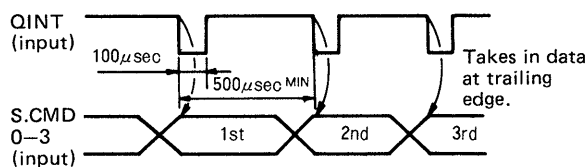
A. Pins and Functions

Pin No.	Name	Function
1	$\overline{FS}$	When "L", DISC No. *** can be accepted (free slot enable).
2	$\overline{TEST}$	Becomes test mode when this pin goes "L" during disk chucking. Going "L" in other modes is ignored.
3	D·REQ	Handshake signal output for data transfer to device controller (IC705).
4	C·REQ	Handshake signal output for data transfer to changer controller (IC704).
5 – 8	S·CMD0 – 3	Data bus with changer controller (IC705) or device controller (IC704). (Refer to Fig. 1 and Fig. 2 for timing, etc.)
9	C·ANS	Handshake signal input for data transfer to changer controller (IC704).
10	D·ANS	Handshake signal input for data transfer to device controller (IC705).
11	RCV	Mode control output pin for bus transmitter of data bus (I/O CMD0 to 3). IC701 is set to input mode when "L".
12	ANS	Handshake signal output for data transfer from controller.
13 – 16	I/O CMD0 – 3	Data bus pins with controller. (Refer to Fig. 3 for timing, etc.)
17	REQ	Data transfer request input pin from controller.
18	TX	This is handshake signal input pin. Data is come synchronizing with the transition points of this line.
19	$\overline{STB}$	Power failure detection pin. When "L" is detected due to power failure, termination processing is performed and sets STBII to "H".
20	$\overline{OPEN}$	Door open switch input pin. Reception is performed from reception of RET OK (return OK) or RST OK (reset OK) to data transmission to changer controller (IC705). Reception stops for five seconds after open is detected.
21	$\overline{PB}$	Output pin which indicates that disc is in playback mode.
22	$\overline{PLO}$	Disk performance mode output pin. When "L", audio signals of this unit are output. When "H", output is switched to audio signals of additional changer. "H" when in STOP or PAUSE mode.
23	MUTE	"L" when this unit or additional changer is playing.
24	$\overline{PLF}$	"L" when this unit or additional changer is in PLAY mode. At REPLAY mode, MUTE pin goes "H" but this pin is still "L".
25	EX	Clock input pin.
26	X	Output pin for built-in clock OSC circuit.
27	$\overline{RESET}$	Input/output pin. "L" is output during power-on reset and reset is applied when "L" is applied externally.
28	$\overline{IRQ}$	External interrupt input pin.
29	$\overline{TC}$	Not used. (Clock input pin for counter.)
30	$\overline{SC/TO}$	Clock input/output pin for serial port, not used.
31	$\overline{SI}$	Serial data input pin, not used.
32	$\overline{VSS}$	

Pin No.	Name	Function
33	$\overline{\text{SO}}$	Serial data output pin, not used.
34 – 37	CHM0 – 3	Input pin changer number recognition for this unit when changers are concatenated. When SW990 is “0” (That is pins 34 to 37 are all “H”), this unit recognized as the first changer.
38	$\overline{\text{PREVIOUS}}$	Switch  (S751) input pin.
39	$\overline{\text{NEXT}}$	Switch  (S752) input pin.
40	$\overline{\text{PAUSE}}$	Switch  (S753) input pin.
41	$\overline{\text{PLAY}}$	Switch  (S754) input pin.
42	TRAY	Input pin for switch (S711) to detect door opening/closing. Detection is stopped for five seconds after detecting door opening.
43	$\overline{\text{ALL}}$	When the unit goes in test mode while this pin is “L”, set discs are played in order. This continues until the power is turned off (MB-88521-146M is not equipped with this function).
44	$\overline{1/60}$	If the unit goes in test mode while this pin is “H”, the first disc is taken and if it is “L”, the 60th disc is taken (MB-88521-146M is not equipped with this function).
45	NC	
46	$\overline{\text{PM}}$	Output pin of drive signal for plunger (PS701) which opens door. “L” is output for approx. 250 ms when $\overline{\text{OPEN}}$ input is received.
47	$\overline{\text{NG}}$	“L” is output when set does not operate due to mechanical problem of changer or BU-1.
48	$\overline{\text{TEST 0}}$	“L” is output in test mode.
49	NC	
50 – 53	I/O CMDⅡ0 – 3	Data bus for data transfer with additional changer. (Refer to Fig. 3 for reception timing, etc.)
54	ANSⅡ	Handshake signal input pin for data output at I/O CMDⅡ0 to 3.
55	C-STA	Input pin for confirmation of changer type. “L” on CDK-3300PⅡ.
56	VDDBⅡ	Input pin for confirming additional changer power supply. Makes STBⅡ to “H” when “L” (OFF). If the need to send data to the additional changer occurs at this time, and sends ERROR to the controller.
57	NC	
58	$\overline{\text{REQⅡ}}$	Data transfer to additional changer is performed after “L” is output.
59	TXⅡ	Handshake signal input pin for data transfer to additional changer.
60	STBⅡ	When $\overline{\text{STB}}$ is “H” and VDDBⅡ is “H”, this pin is set to “L” and the additional changer is set to the standby state.
61	NC	
62	START	Standby release input pin.
63	NC	
64	Vcc	B+ pin.

Table 1

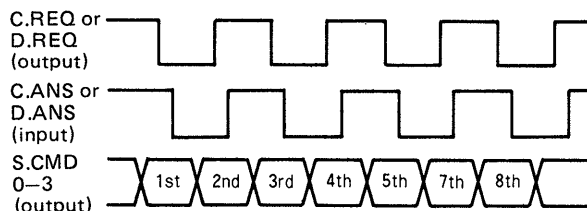
B. Data reception from changer controller (IC705) or device controller (IC704)



- The data arrives synchronizing to QUINT unilaterally.

Fig. 1

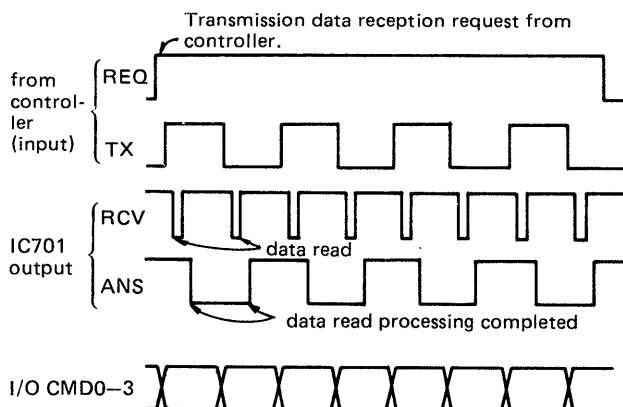
C. Data transmission to changer controller (IC705) or device controller (IC704)



- Transmission has priority over reception.
- Transmission is performed by handshaking of REQ and ANS.
- If data transmission is not completed within five seconds, the changer controller or device controller processes as unable to receive.

Fig. 2

D. Data reception from controller



- The data arrives synchronizing to the leading or trailing edge of TX.
- Data is received by handshaking of TX and ANS.
- Reception has priority over transmission.

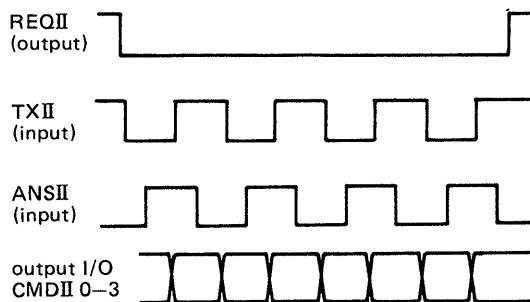
- If the data transfer is not completed within five seconds, this is processed as an abnormal state. (REQ is set once to "L" if the data is to be transferred continuously.)

Fig. 3

E. Data transmission to controller

If data is set on I/O CMD0 to 3 with the state of RCV: "H" and ANS: "H", the controller takes in this data.

F. Data transmission to additional changer



- Data transmission by handshaking of TXII and ANSII.
- Transmission has priority over reception.
- If the data transfer is not completed within five seconds, error processing is performed. (REQII is set once to "H" if data is to be transferred continuously.)

Fig. 4

G. Reception of data sent from additional changer

The data of I/O CMDII0 to 3 is read at all times except during transmission.

2. IC704 (Changer Controller)

This moves the mechanism while checking the changer mechanism detection switches, according to the commands sent from the master controller (IC701), and when the designated operation is completed, sends data (response) to IC701 informing it of completion. The signal communication with IC701 is the same as that of IC705. In addition, key input for test mode is performed.

Pin Functions

Pin No.	Pin Name	Function
1	LIMIT SW	Carrier left side limit switch detection.
2	END	Carrier right side limit switch detection.
3	FS OFF	Not used.
4	FS ON	
5	FS SW	
6	M MEM	Mechanical memory detection pin.
7	PH1	Carrier position count pin.
8	PH2	Carrier position count pin.
9, 10	SCAN OUTPUT	IC714, IC715 (port expansion IC's) port switching data output.
11	DP	Not used.
12	K0	Input ports from IC714, IC715 (expanded input).
13	K1	
14	K2	
15	K3	
16	CLOCK	Clock input (4.0 MHz).
17	NC	
18	RESET	Reset signal input.
19	MCREQ	Signal input pin of handshake with IC703.
20	NC	
21	GND	
22	NC	
23	NC	
24	NC	
25	TEST	Test mode indicator LED control. Low for test mode.
26	SMF	Carrier motor counterclockwise rotation ON/OFF output.
27	SMR	Carrier motor right-handed rotation ON/OFF output.
28	SMS	Carrier motor speed output. Low: high speed, High: low speed
29	AMF	Arm motor forward direction rotation ON/OFF output.
30	AMR	Arm motor reverse direction rotation ON/OFF output.
31	FS IN	Not used.
32	FS OUT	Not used.

Pin No.	Pin Name	Function
33	$\overline{\text{QINT}}$	Interrupt output pin during data transmission.
34	$\overline{\text{CACK}}$	Signal output pin of handshake with IC703.
35	$\overline{\text{CMF}}$	ON/OFF output of chucking motor rotation direction for close.
36	$\overline{\text{CMR}}$	ON/OFF output of chucking motor rotation direction for open.
37	D0	Data buses with IC703.
38	D1	
39	D2	
40	D3	
41	START	Not used.
42	Vcc	B +5 V

Table 2

3. IC705 (Device Controller)

This performs servo of player section and control of optical block.

The function is the same as the one used in ordinary CD player (CDP-103, 303 and 553 etc.).

Pin Functions

Pin No.	I/O	Pin Name	Function
1	OUT	A MUTE	Audio signal muting control output. "H" during muting.
2	OUT	COPY	Not used.
3	OUT	ID	Disc identification signal output. Normally "L". "H" for CD ROM disc. Not used.
4	—	OSCO	Clock pin.
5	—	OSCI	Clock pin. Not used.
6	IN	$\overline{\text{RESET}}$	Reset input pin. Goes "H" in about 1.5 seconds after power ON.
7	IN	TEST	LSI test pin. Not used.
8	IN	SCOR	SUB Q sync signal input pin.
9	IN	$\overline{\text{ADJ}}$	When this pin goes "L", IC705 detects servo or other abnormalities and disc load out is not performed. Used for servo and PLL adjustment. Also, direct search is not performed, and access can only be done by conventional track jump.
10	IN	$\overline{\text{IN SW}}$	Not used.
11	IN	$\overline{\text{OUT SW}}$	
12	IN	$\overline{\text{FOK}}$	Focus OK signal input pin.
13	IN	WFCK	WFCK (Write Frame Clock) input pin.
14	IN	GFS	Guarded Frame Sync input pin. "H" is input when disc data can be read normally.
15	IN	SUB Q	SUB Q signal (which has selection address, emphasis data, etc.) input pin.
16	—	GND	Ground pin.
17	—	NC	Not used.
18	IN	SENS	Input pin for IC501, IC603 SENS output.

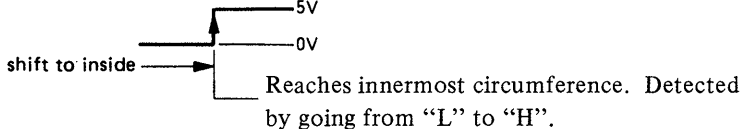
Pin No.	I/O	Pin Name	Function
19	IN	Q CHECK	Inputs of CRC results of SUB Q output from IC603.
20	OUT	LATCH	Latch output pin for serial data to IC501, IC603.
21	OUT	DIRECT	Output pin to IC501 during 1 track jump. Normally "H". Reverses track jump pulse direction at "L". When "H" again, set to normal tracking mode. Outputs "L" for a set time by detection of TZC (Tracking Zero Cross) rise and fall.
22	OUT	DATA	Output pin for serial data to IC501, IC603.
23	OUT	CLOCK	Output pin for serial data transmission clock to IC501, IC603.
24	OUT	SLED G	Output pin which controls sled motor gain. Normally "H". "L" during access.
25	IN	SLED S	Input pin which detects optical block be in innermost circumference. 
26	IN	AF ADJ	Not used. Normally "H".
27	OUT	Q INT	Interrupt output pin for data sent to IC703.
28	OUT	S ACK	IC701 M REQ acknowledge signal output pin.
29	IN	M REQ	IC701 M REQ signal input pin.
30	—	NC	Not used.
31 – 34	IN/OUT	CMD0 – CMD3	Data input/output pin with IC701.
35	OUT	LD ON	Output pin which controls laser diode ON/OFF.
36	OUT	LOAD IN	} Not used.
37	OUT	LOAD OUT	
38	OUT	EPS	Output pin which detects disc emphasis and switches emphasis ON/OFF.
39	—	VDD	Power supply pin (5 V)
40	OUT	REC MUTE	} Not used.
41	OUT	PAUSE	
42	IN	REC M	
43	—	NC	
44	OUT	D MUTE	Digital signal muting control output pin. "H" for muting.

Table 3

4. IC714 AND IC715

These IC's are for IC704 port expansion, and have switch input as shown in Table 4 below.

When all are in low, switches are ON.

IC No.	Pin No.	Name of Switch	Function
715	5	CON	Chuckling closed position detection.
715	11	COFF	Chuckling opened position detection.
714	5	CMID	Chuckling mid position detection.
714	10	DDET	Disc detection switch input pin.
714	6	RLS	Input pin which detects carrier claw open.
715	6	HOLD	Input pin which detects that carrier claw has grasped disc.
715	10	UP	Input pin which detects carrier arm raising.
714	11	TEST	Key for setting in test mode. Set RESET (S750) switch on while pressing the TEST switch (S771), then keep to press until the TEST LED goes out, so it goes in TEST mode.
715	3	A-F	Key in test mode. Rotates arm motor in forward direction.
715	13	A-R	Key in test mode. Rotates arm motor in reverse direction.
714	12	OPEN	Key in test mode. Rotates chucking motor in opening direction.
714	4	CLOSE	Key in test mode. Rotates chucking motor in closing direction.
715	12	C-LEFT	Key in test mode. Rotates carrier motor to the left.
715	4	C-RIGHT	Key in test mode. Rotates carrier motor to the right.

Table 4

5. CHANGER MECHANISM

The changer consists of three blocks, the chucking block, carrier block and arm block. Each has one motor and several detection functions.

A. The 3 Blocks and Detection Switches

Block Name	S-No.	Name	Function
Chuckling Block	M701	CHUCKING MOTOR	
	S706	CON SW	Detects chucking mechanism closed.
	S701	COFF SW	Detects chucking mechanism open.
	S709	CMID SW	Detects chucking mechanism be in midway.
Carrier Block	M702	CARRIER MOTOR	
	S702	LIMIT SW	Detects carrier position at the left edge.
	S704	END SW	Detects carrier position at the right edge.
	PH701	PHOTO 1	Counts the number of discs where the carrier positioning, and detects carrier stop position.
	PH702	PHOTO 2	
	PH703	M MEM	Disc return position memory.

(Continued on next page)

Block Name	S-No.	Name	Function
Arm Block	M703	ARM MOTOR	
	S707	D DET SW	Detects whether disc is in tray or not.
	S705	HOLD SW	Detects whether disc is grasped.
	S708	RLS SW	Detects whether disc is released.
	S703	UP SW	Detects arm raising.
Other Detection	S710	TRAY SW	Detects whether tray is set.
	S711	DOOR SW	Detects whether door is closed.
	S715	MOTOR CUT SW	Linked with arm lock lever; when OFF, carrier motor does not move.
	S714	LASER CUT SW	In same place as S711; when OFF, current does not flow to laser diode.

Table 5

B. Mechanism Operation Timing Chart

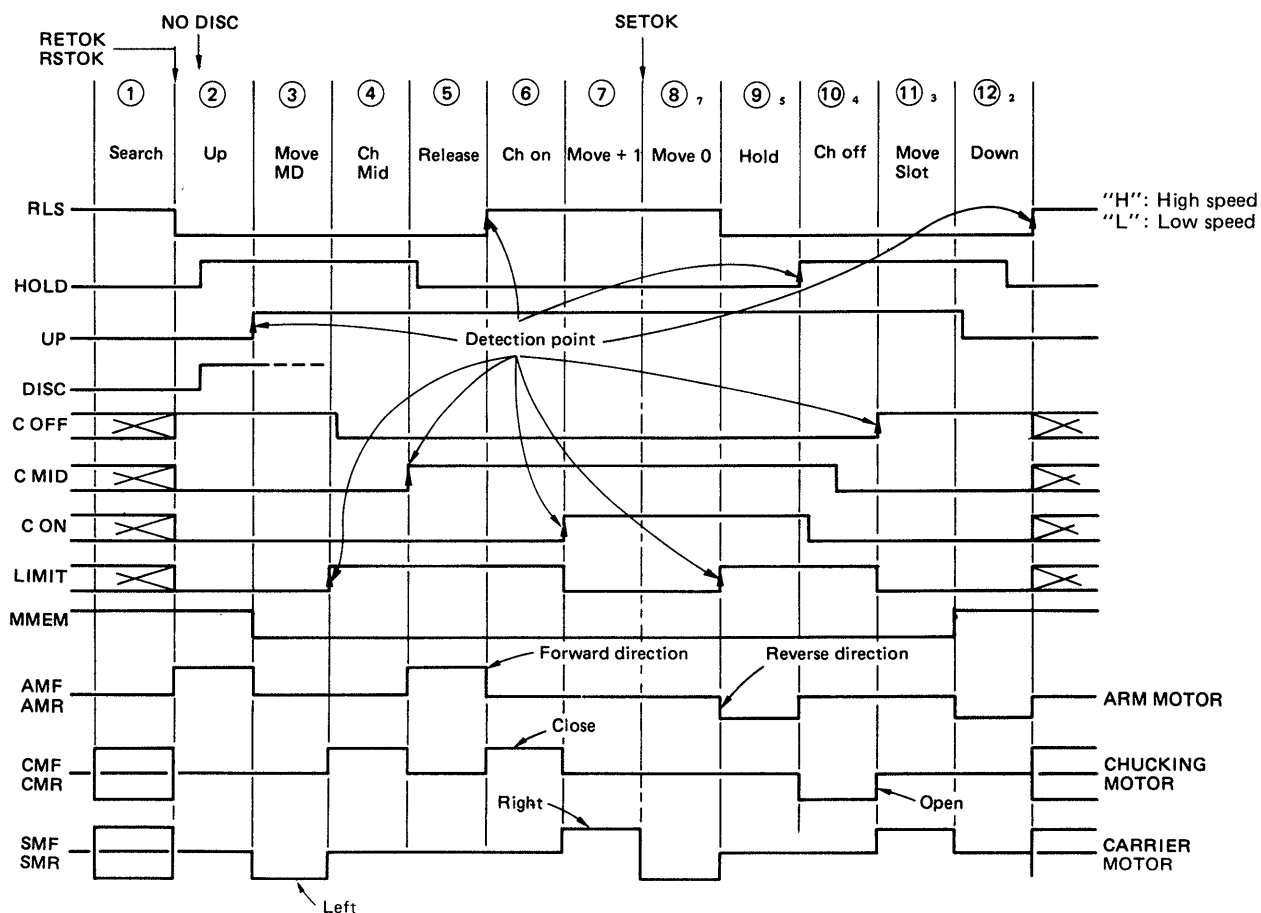


Fig. 5

C. Mechanism Operation Flow Chart (Numbers correspond to those in Fig. 5, Timing Chart.)

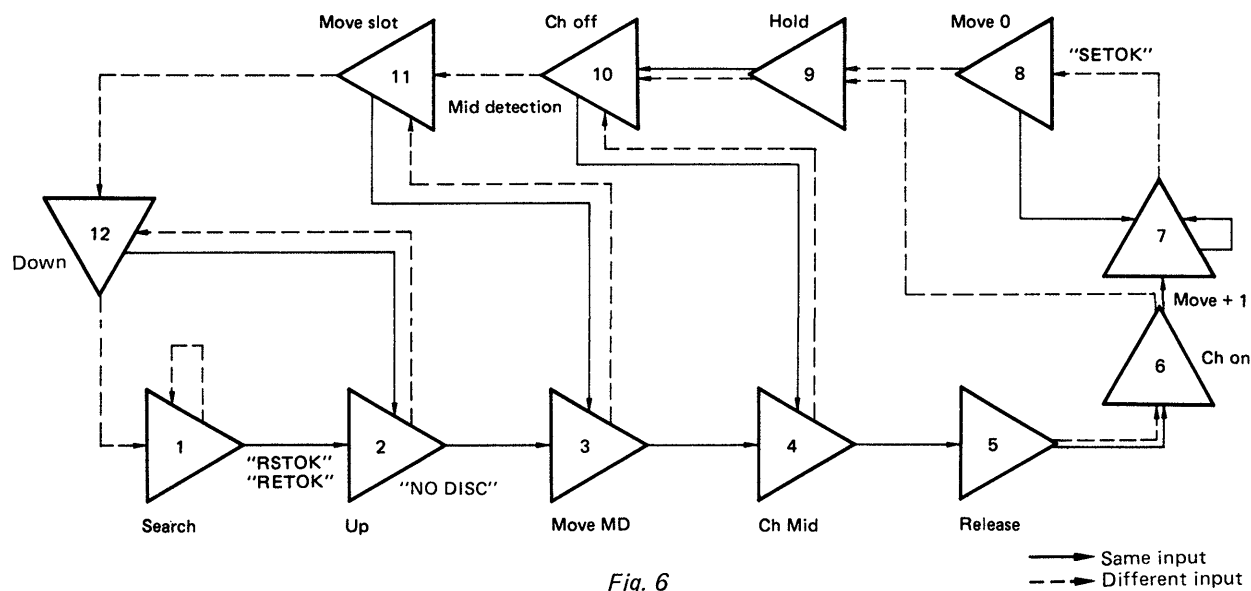


Fig. 6

D. Carrier Position Counting Method

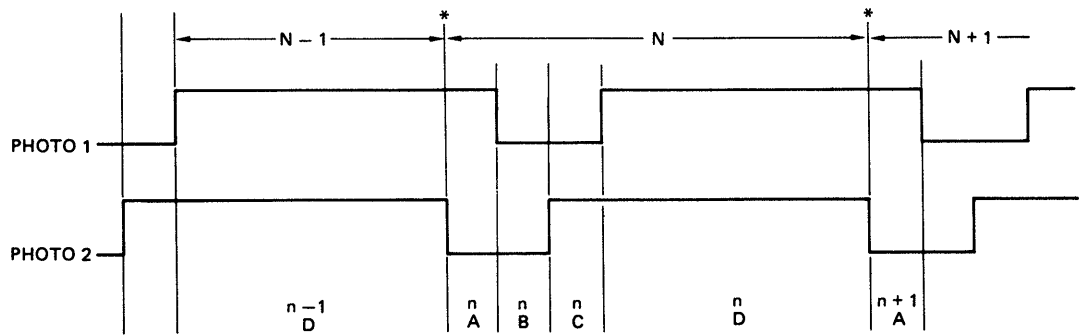


Fig. 7

PHOTO 1	PHOTO 2	Carrier Position	Note
"H"	"L"	A	Area B when PHOTO 1 goes from high → low. *Area D when PHOTO 2 goes from low → high. (count down)
"L"	"L"	B	Area A when PHOTO 1 goes from low → high. Area C when PHOTO 2 goes from low → high.
"L"	"H"	C	Area D when PHOTO 1 goes from low → high. Area B when PHOTO 2 goes from high → low.
"H"	"H"	D	Area C when PHOTO 1 goes from high → low. *Area A when PHOTO 2 goes from high → low. (count up)

Table 6

Note:

- PHOTO 1 indicates left side and PHOTO 2 right side (as seen from the front of the set).
- The above four states A – D exist within one slot counting.
- Counting is done at the points marked (*).
- Stop area is "B".
- When the carrier present position and target position are more than 5 slots apart, movement is done at high speed, and at low speed when less than 5 slots apart. Also, when the carrier goes in area A or C of the target disc, pulse movement is done and it stops at area B.

6. MECHANICAL MEMORY

The mechanical memory is detected by photo-interrupter at the rear of the carrier. This moves locked with the carrier when the arm is down, and the lock is released and it is freed when the arm goes up.

Then, when the arm goes for a disc, it locks, and when the disc is grasped and moves toward the BU (CD player), the mechanical memory remains in that position. Then, when the disc is returned, even if there is a miscount, the disc is returned to the original position due to the memory. Also, even if power is cut during PLAY, the disc can be returned to the correct position after power is turned on again.

7. TEST MODE

Test mode is a service function, and enables the changer mechanism only to be moved manually.

A. How to Set TEST Mode

- 1) Press reset switch (S750) while pressing TEST switch (S771).
- 2) When D713 LED goes out, release TEST switch.

After performing the above, the changer mechanism will not operate at all. (However, the carrier motor will try to move to a disc position (area B).)

IC704 is in a special state, and the other CPU's operate normally. Signal lines of external control are also the same as usual.

B. Movement in TEST Mode

By pressing the 6 keys A-F, A-R, LEFT, RIGHT RLS, HOLD, the motors will move in the prescribed

directions. Two or more will not move at the same time.

When any key is pressed, movement will occur, and will stop when the key is released. Also, when a detection point is reached, the motor will stop even though the key continues to be pressed. In order to continue moving at this point, turn off once, then press again.

Also, when the limit position is reached (the position where further rotation will cause the mechanism to break) the motor stops.

Stop position detection points:

Arm: When the four switches go on.

Carrier: When right or left limit position switch goes on.

Chucking: Open direction, when C OFF goes on; Close direction, when C MID or C ON goes on.

C. Precautions

- 1) Movement done by pressing the keys will not cause the blocks to break in a block on itself, but two blocks might collide, causing stress on the mechanism.

Example: Chucking and arm etc.

Also, the possibility of colliding with a disc, etc. exists, so be sure to observe when moving the blocks.

- 2) After moving manually, return to normal operation may not be possible without returning to the following state:

- Arm down (claw open)
- Mechanism memory locked (D711 lit up)
- Carrier moves smoothly to the right and left

8. MANUAL KEYS AND TEST MODE

The 5 keys lined up on the top of the board are the manual keys. They are accepted when setting IC701 in TEST mode.

The test mode is set by turn on S755 during PLAY after chucking a disc with operating the controller.

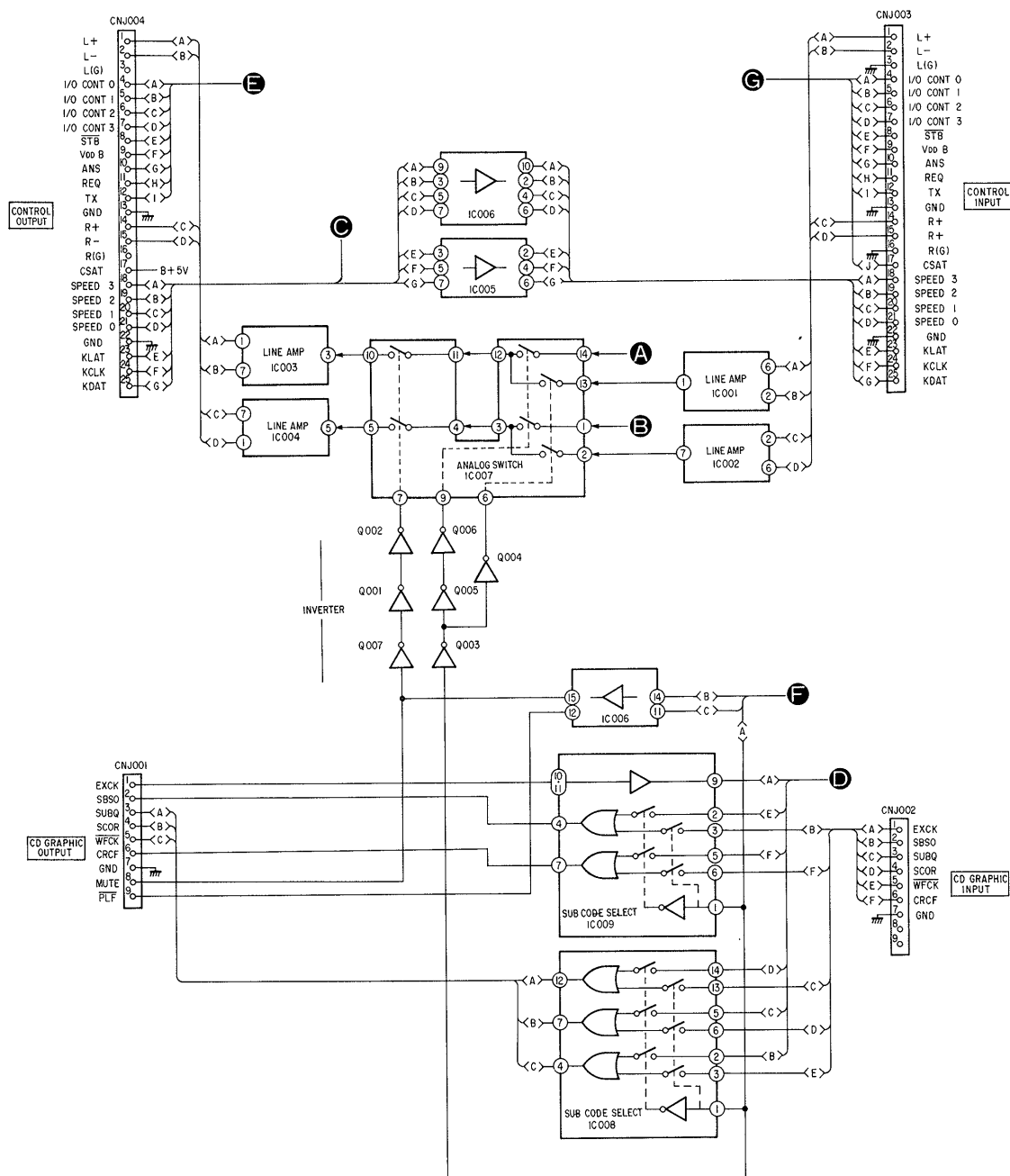
When turning on S755, the PLAY stops with reading TOC.

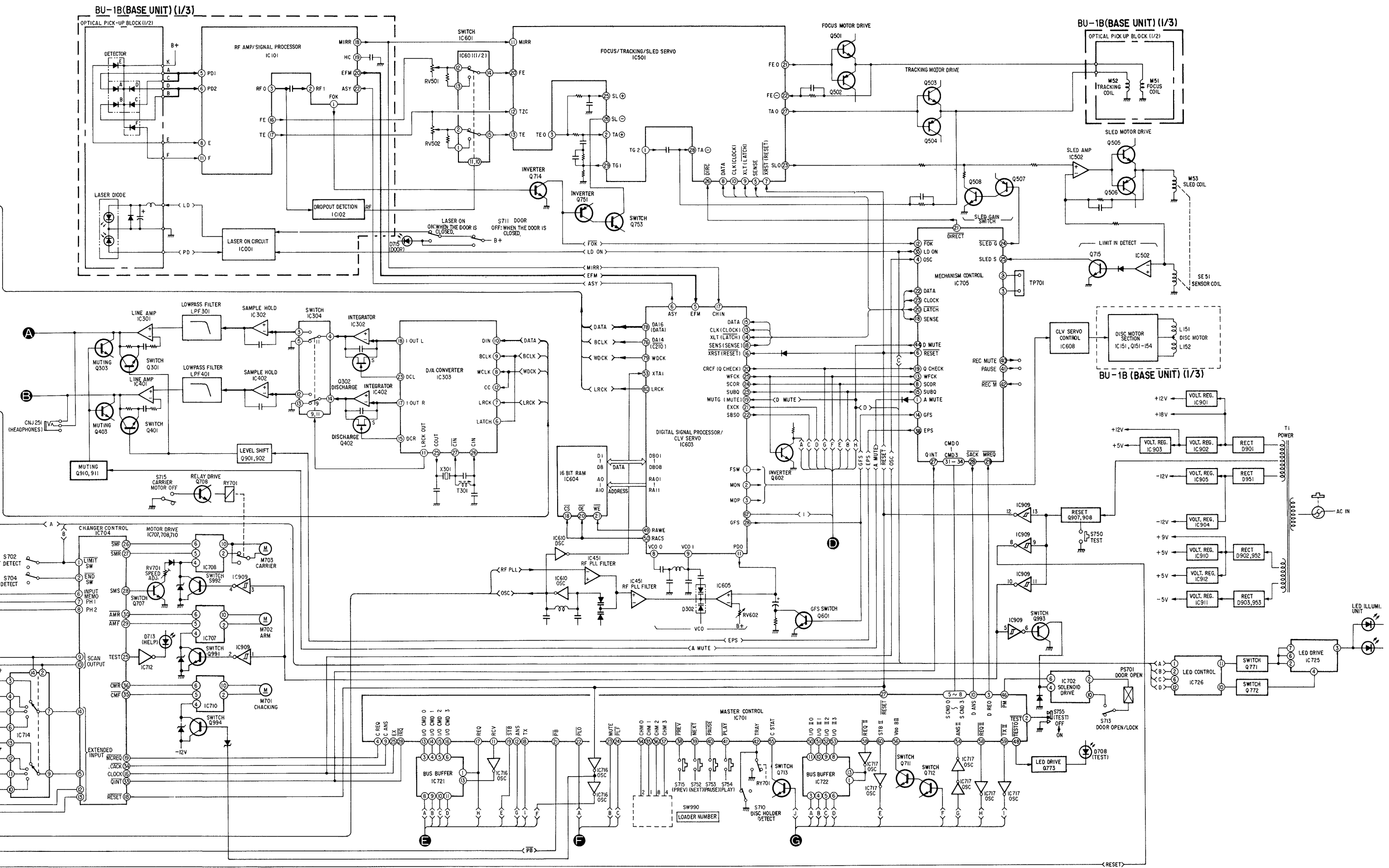
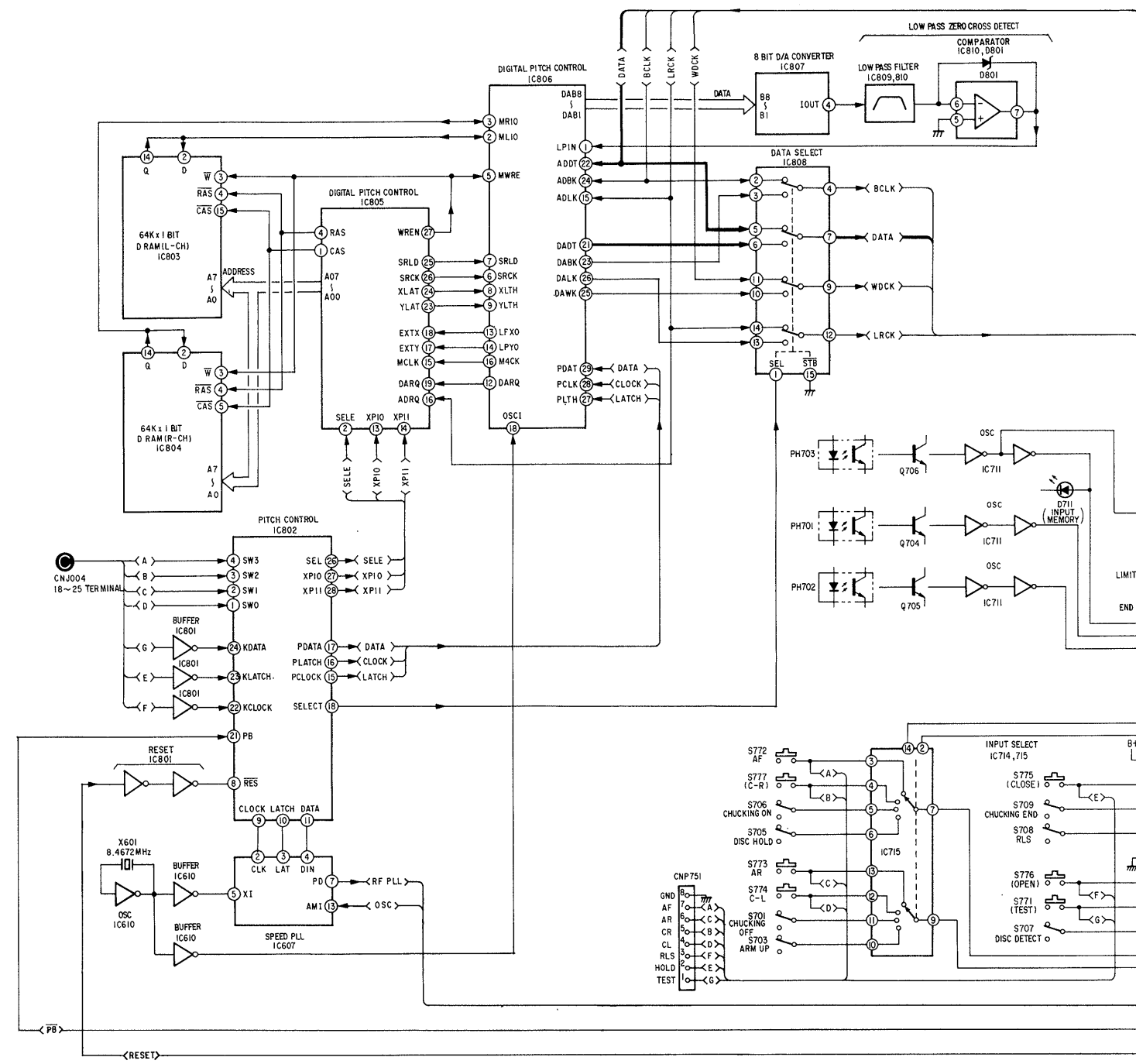
After this, the 5 keys enable to operate following functions.

Name of Key	Switch No.	Function	
RST	S750	Returns the disc and releases the test mode by pressing for approx. 4 seconds.	
PREV	S751	By pressing one, plays from the begin of the music, by pressing twice, plays the previous music.	
NEXT	S752	Plays next music.	
PAUSE	S753	PAUSE	Stops by pressing PAUSE and PLAY keys simultaneously.
PLAY	S754	PLAY (PAUSE released)	

Table 7

1-2. BLOCK DIAGRAM

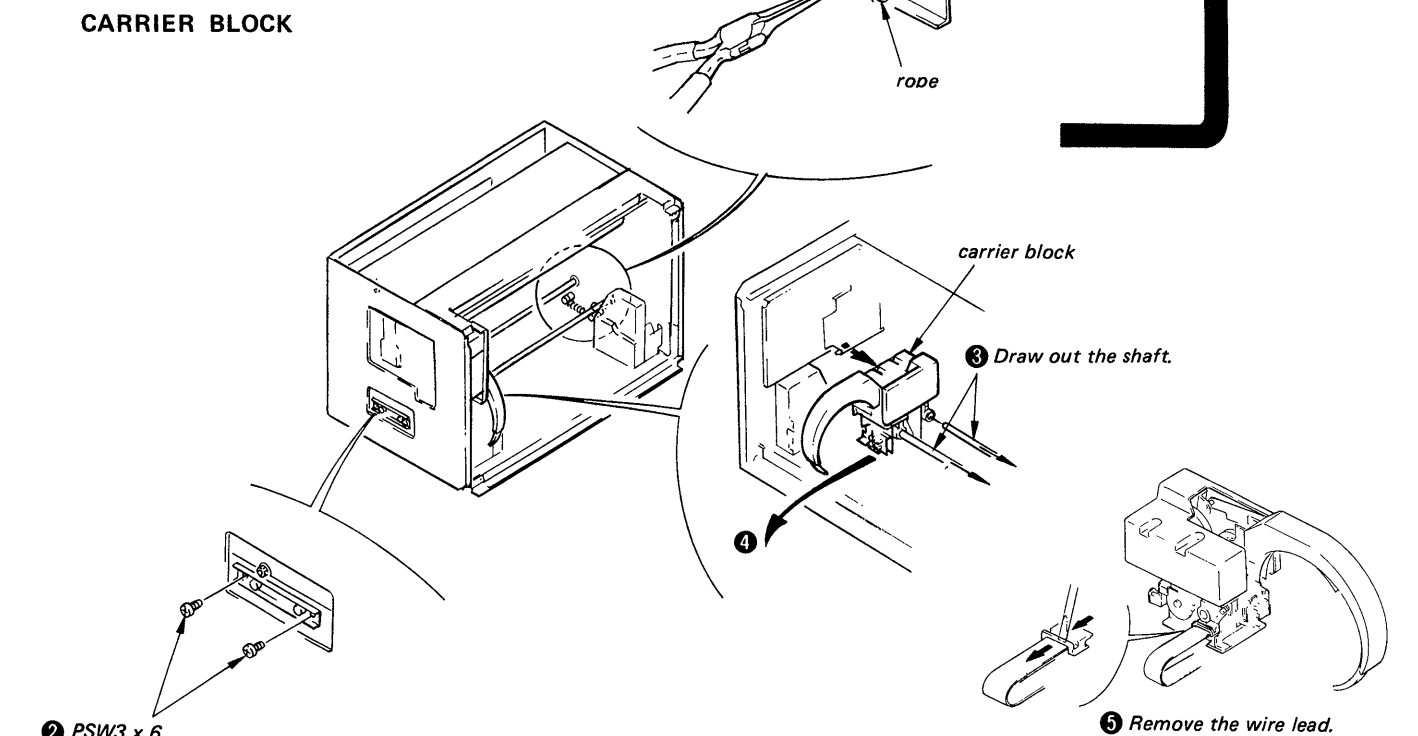
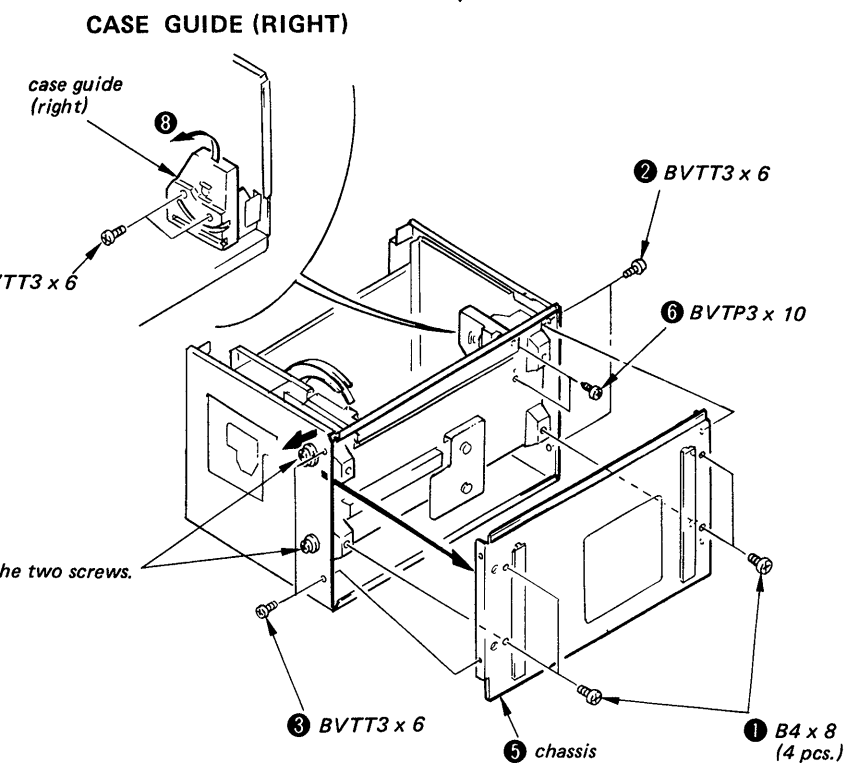
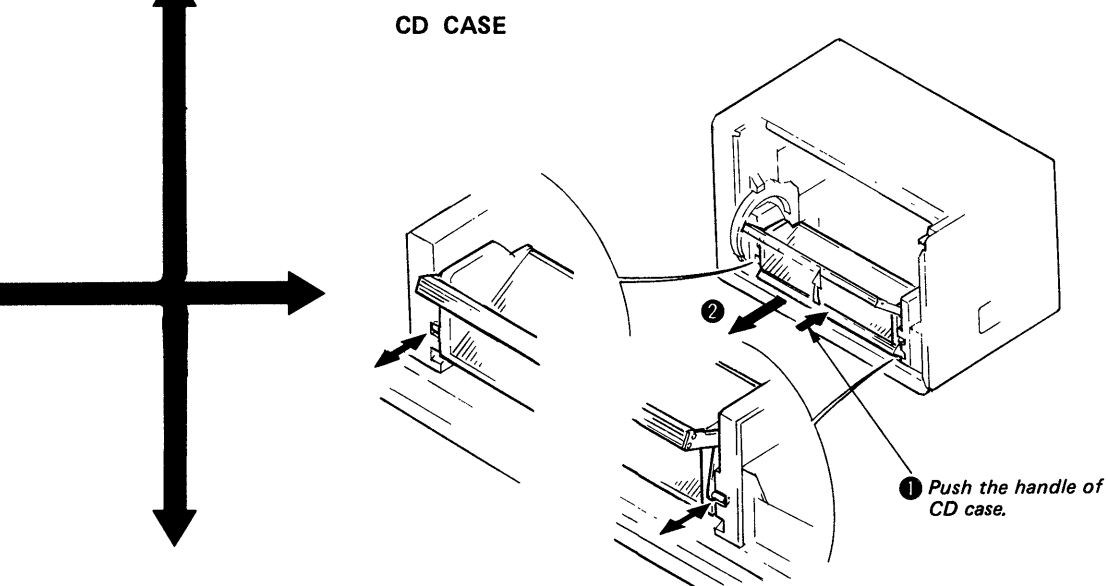
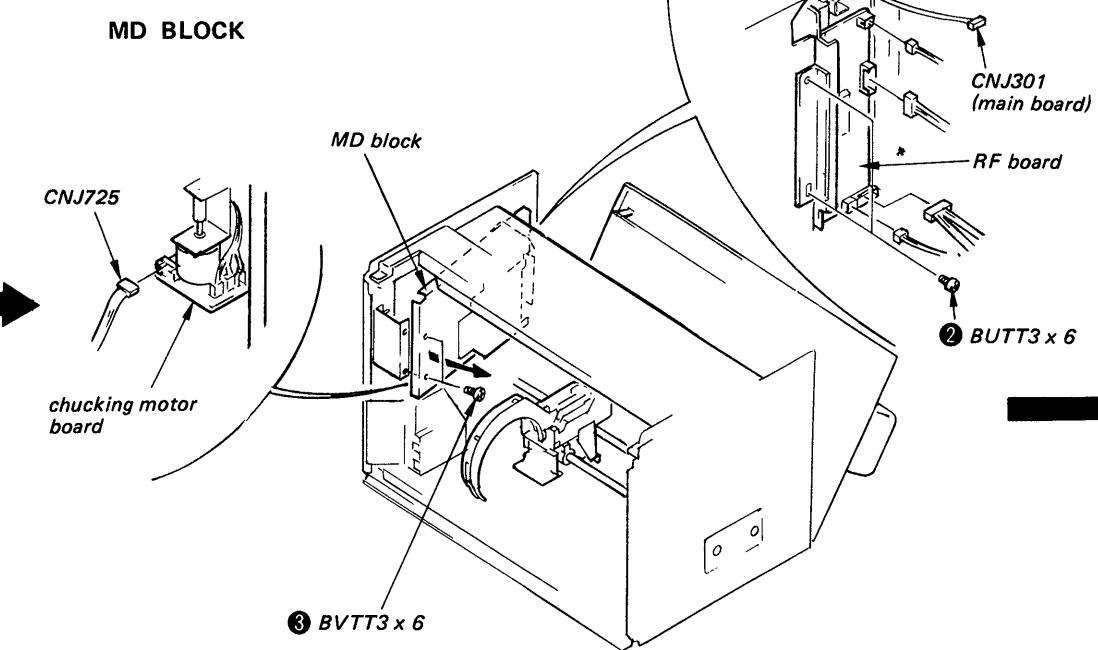
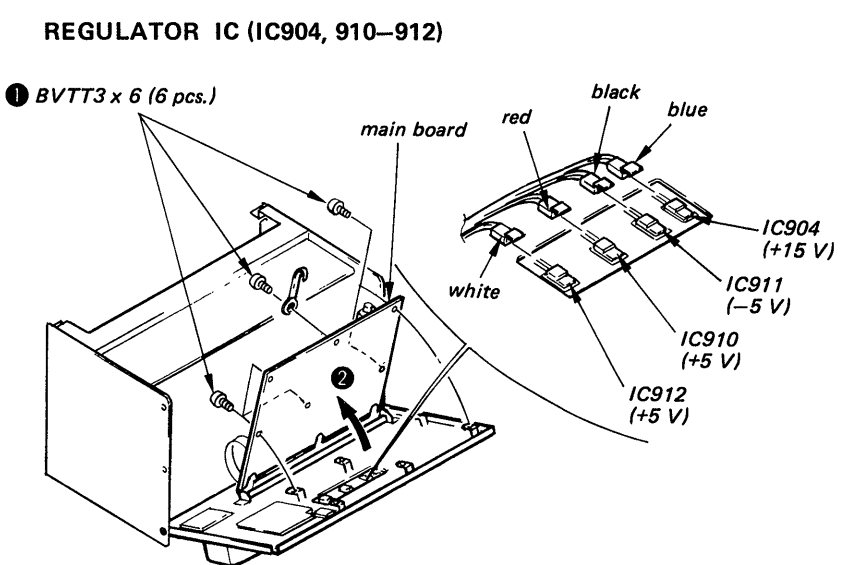
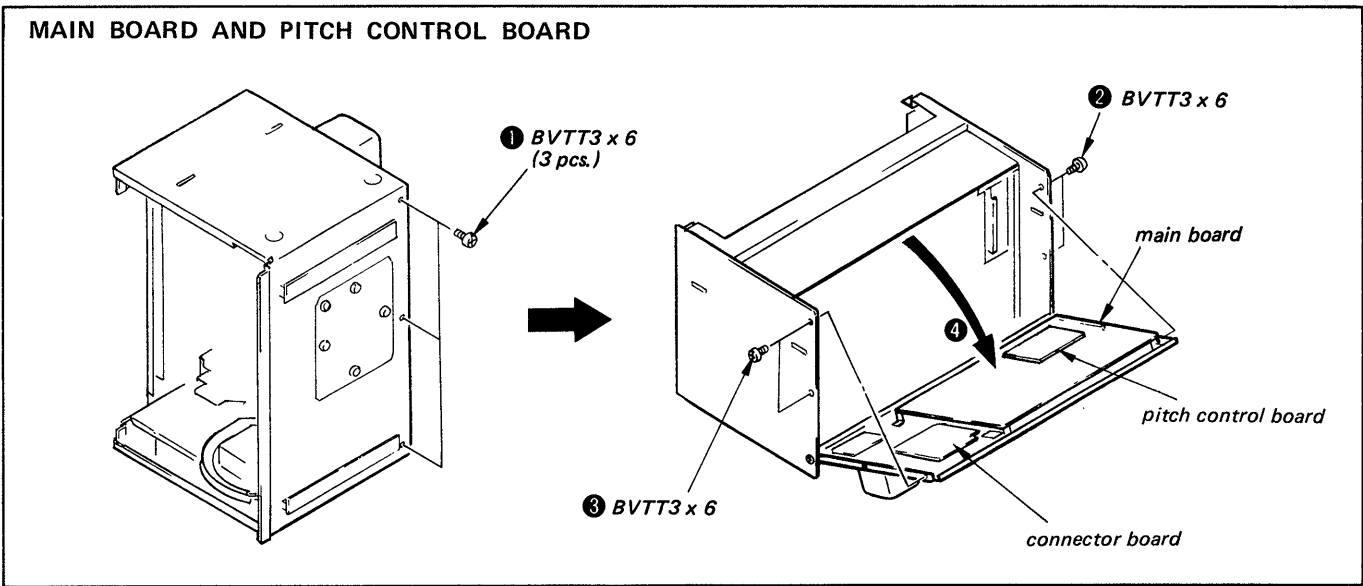
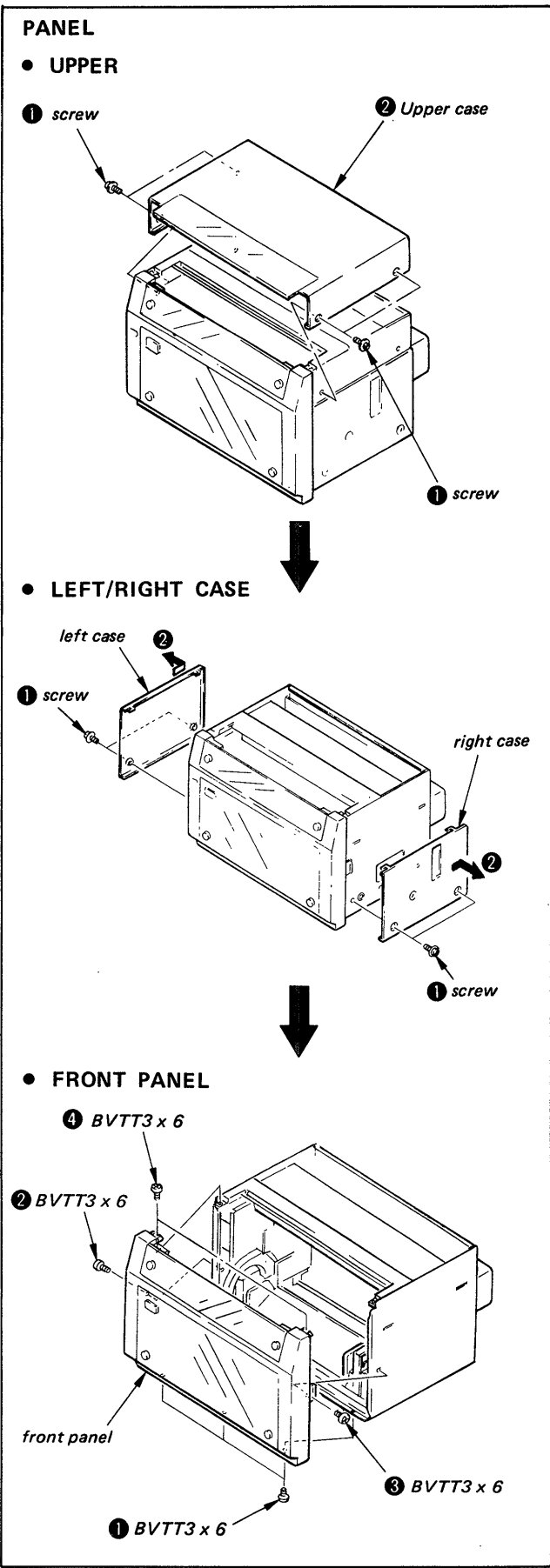




SECTION 2
DISASSEMBLY

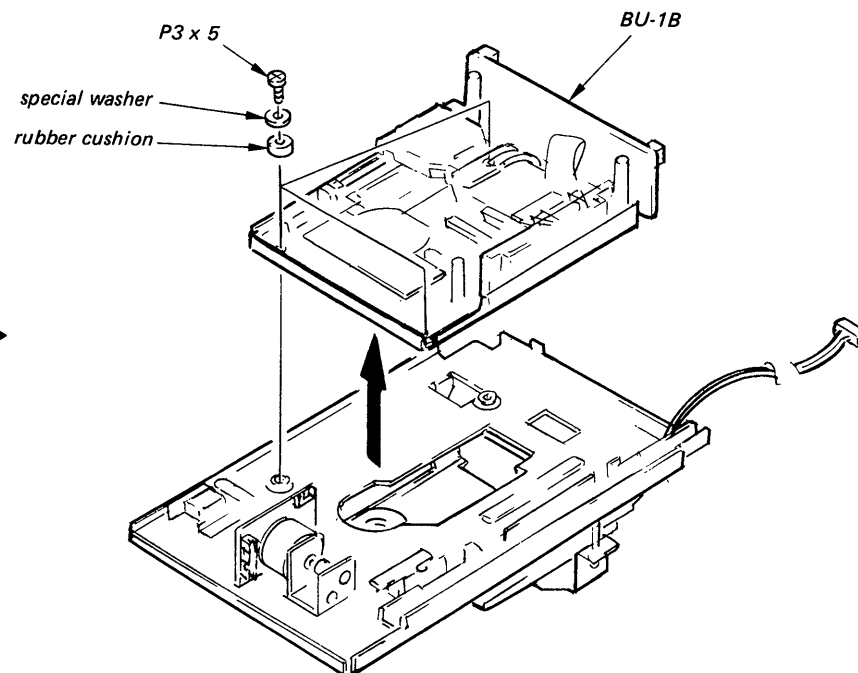
2-1. REMOVAL

Note: Follow the disassembly procedure in the numerical order given.

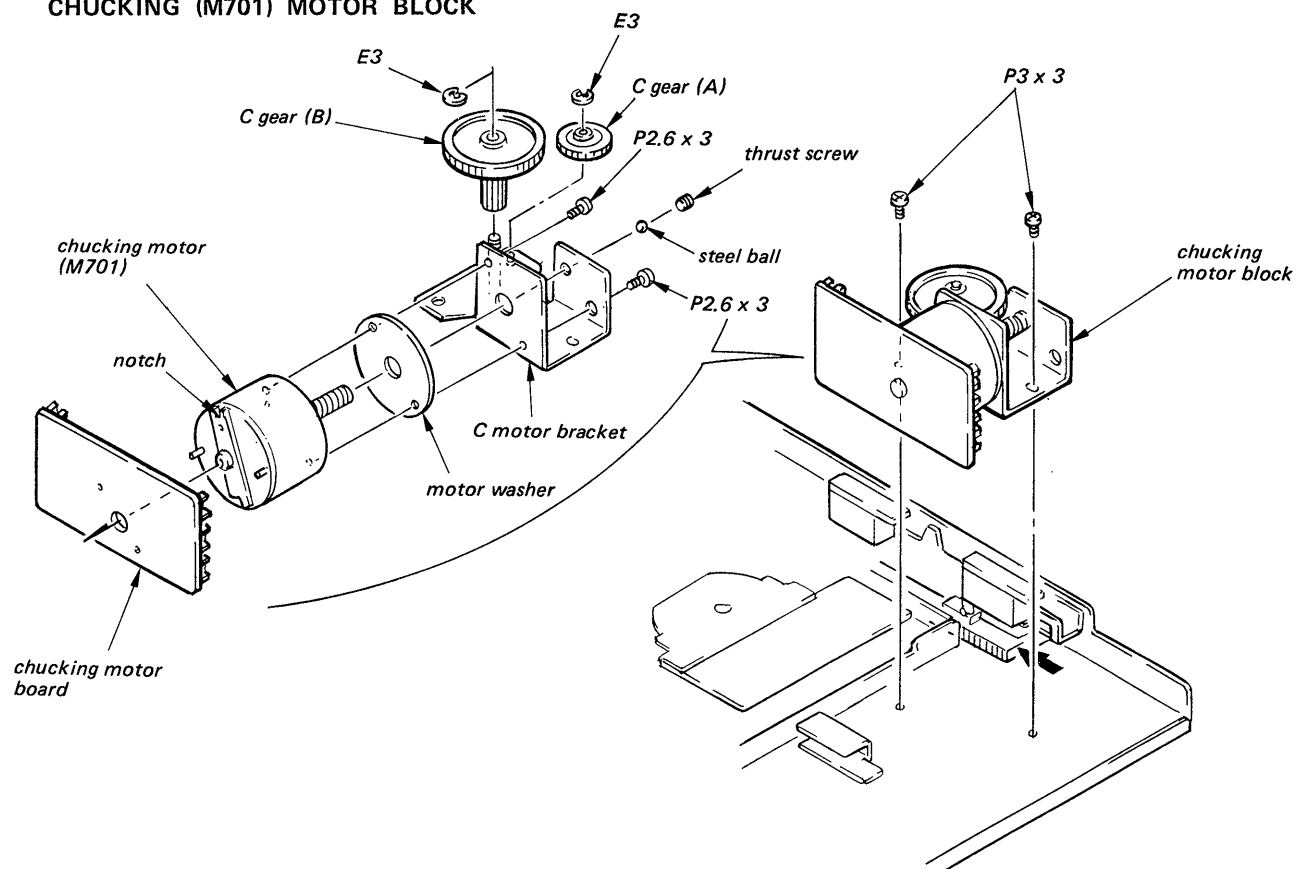


ROPE STRINGING
(See page 32.)

BU-1B UNIT



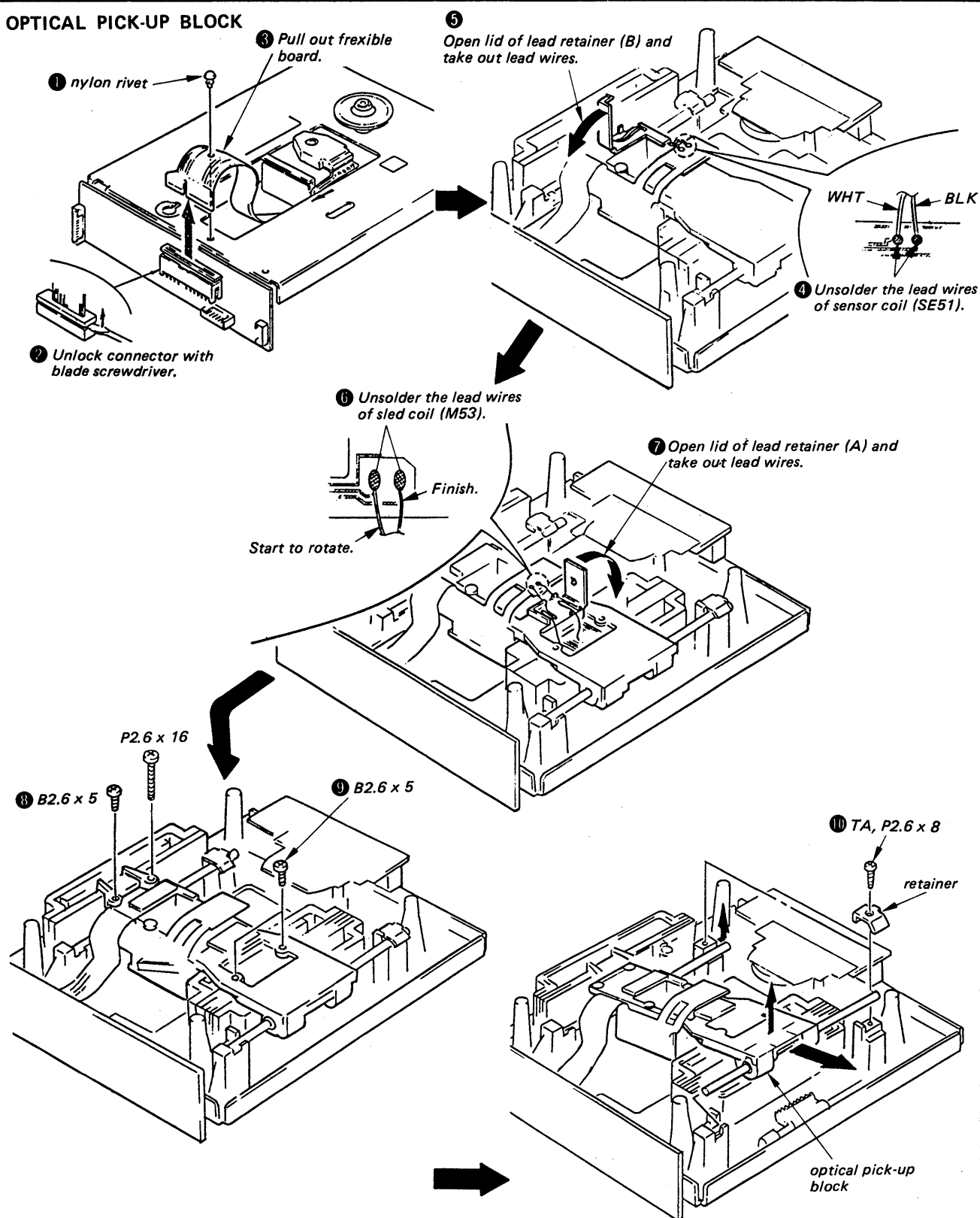
CHUCKING (M701) MOTOR BLOCK



BASE UNIT (BU-1B)

(See page 25.)

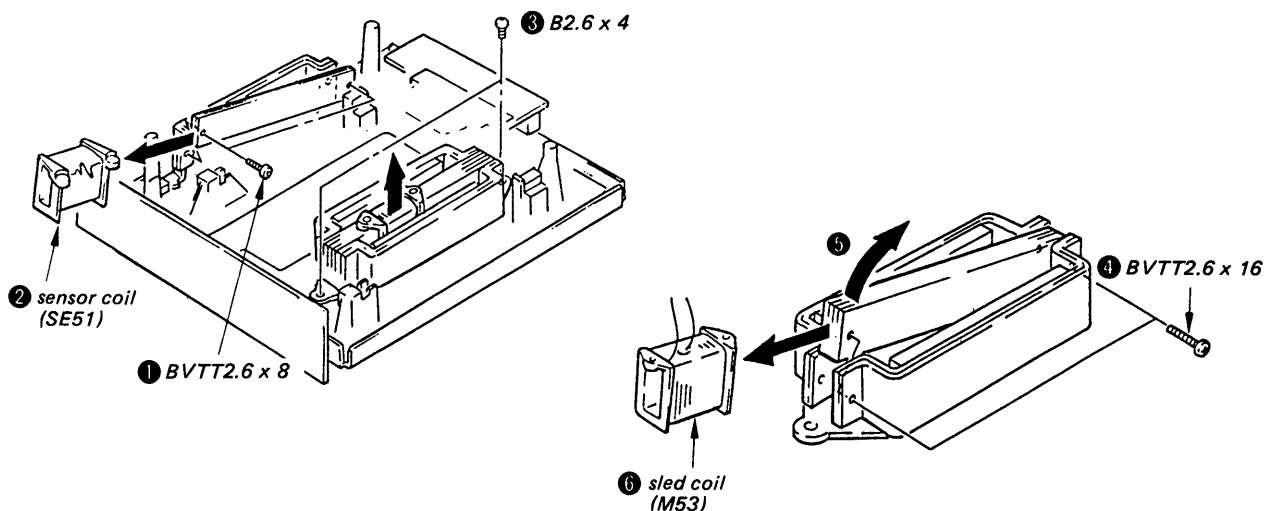
OPTICAL PICK-UP BLOCK



SLED COIL (M53), SENSOR COIL (SE51)

①, ② : sensor coil (SE51)

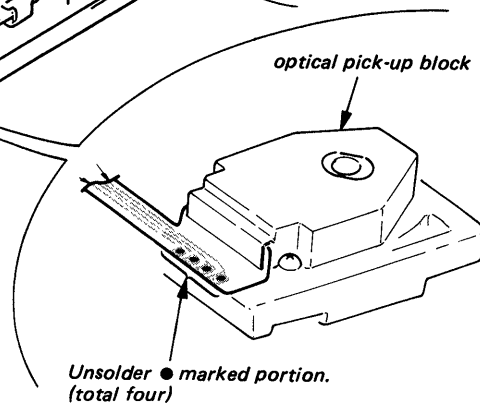
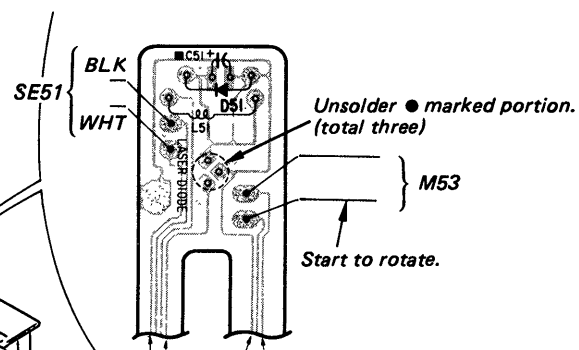
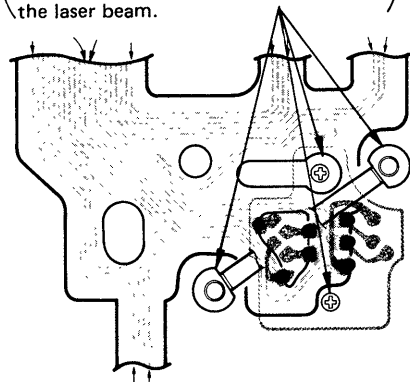
③~⑥ : sled coil (M53)



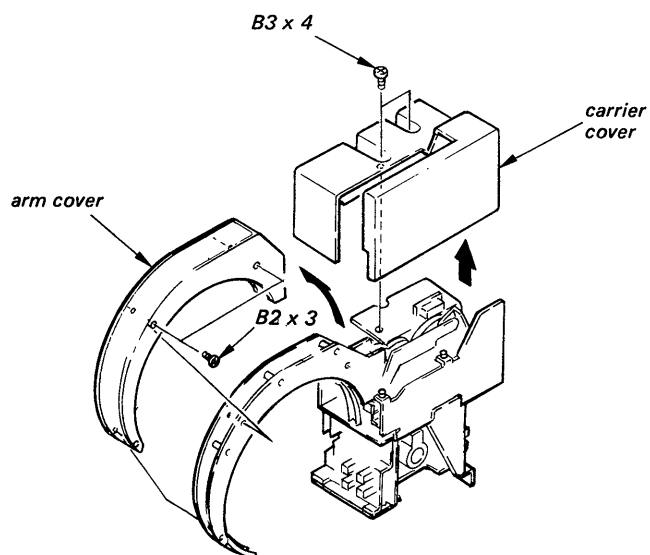
FLEXIBLE BOARD

Note: Be sure not to remove the screws.

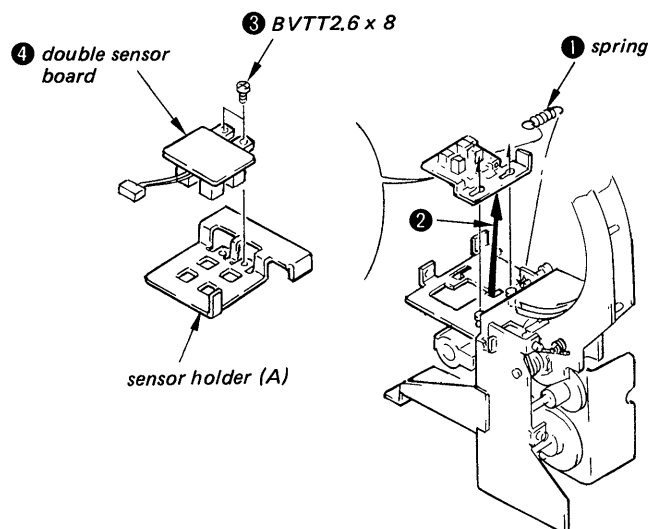
(The screws fix the detector. Therefore, if the screws are removed or loosened, the detector moves and cannot receive the laser beam.)



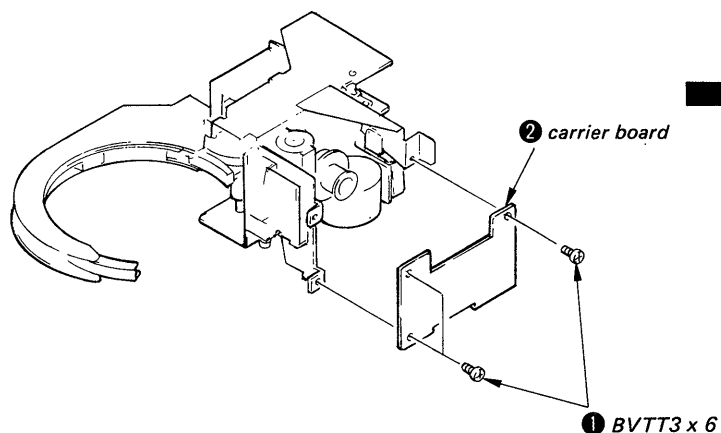
2.2. CARRIER SECTION REMOVAL CARRIER COVER AND ARM COVER



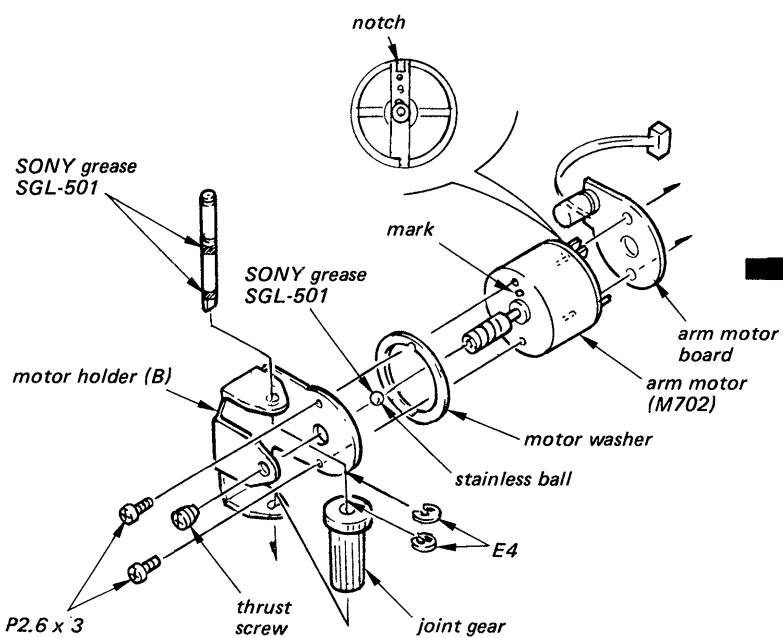
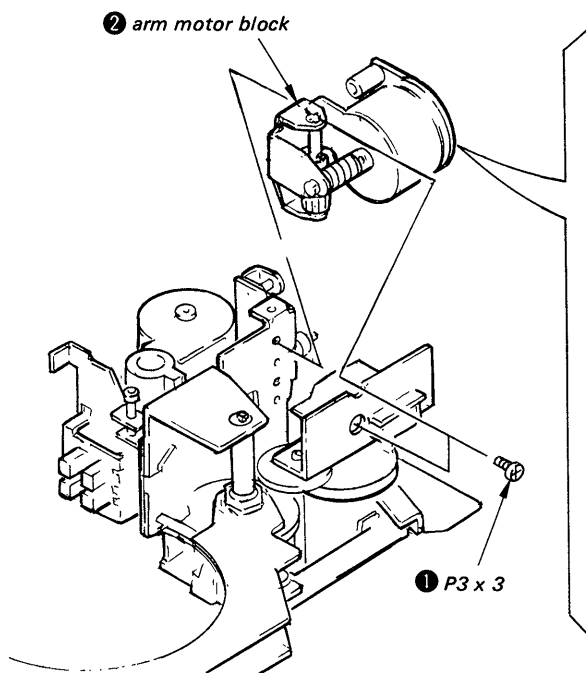
DOUBLE SENSOR BOARD



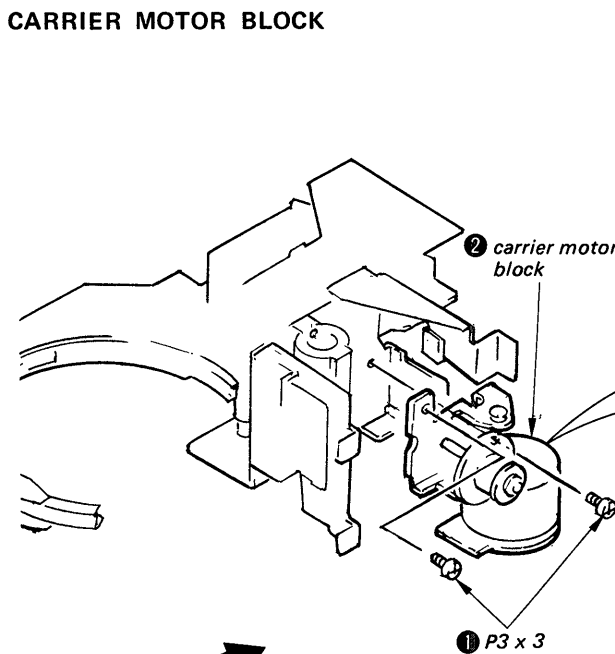
CARRIER BOARD



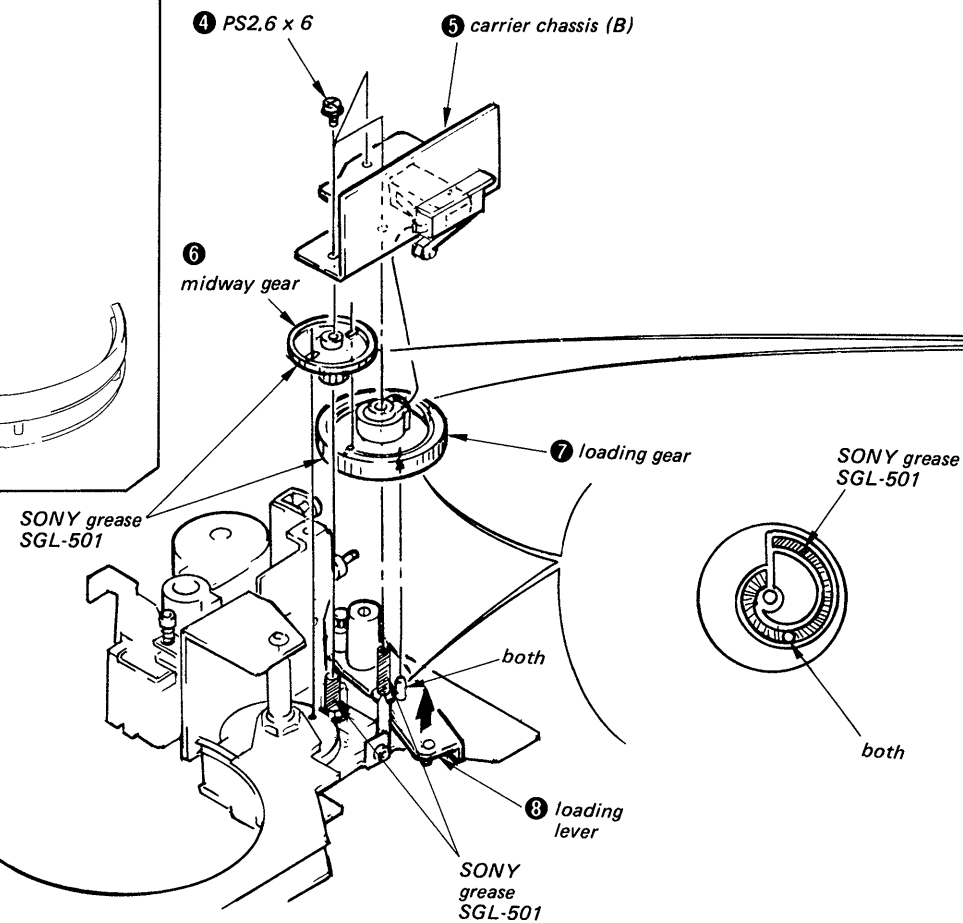
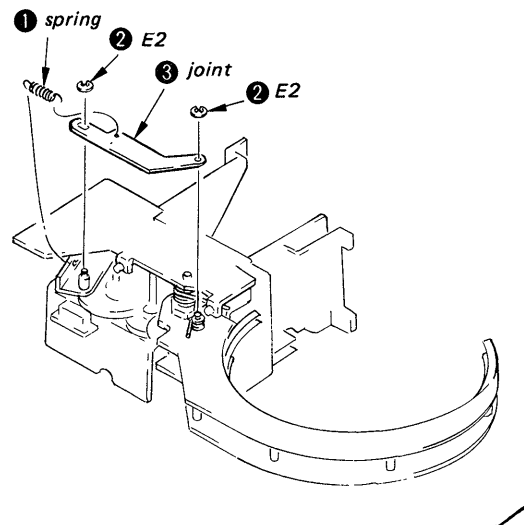
ARM MOTOR (M702) BLOCK



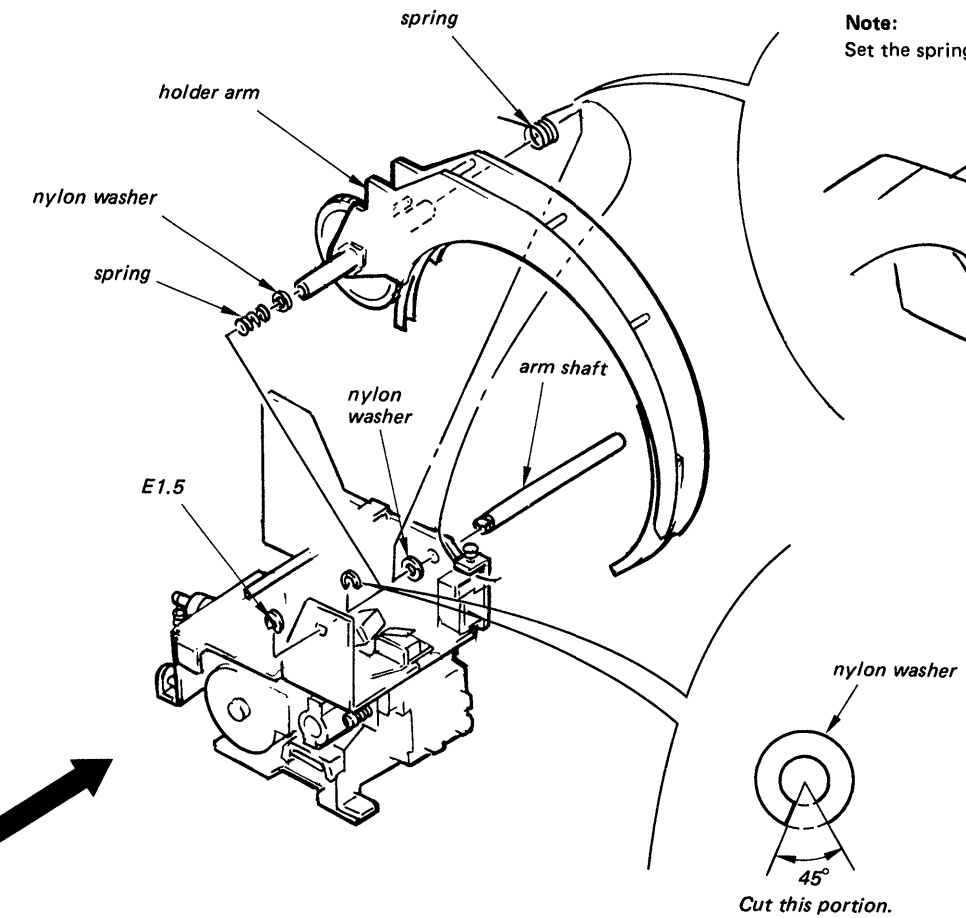
CARRIER MOTOR BLOCK



LOADING/MIDWAY GEAR



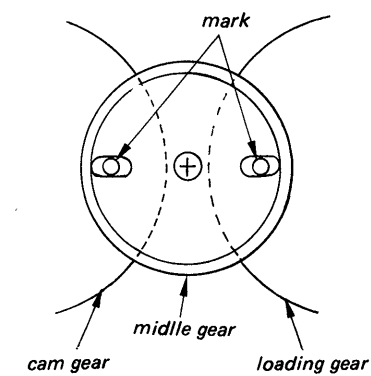
HOLDER ARM



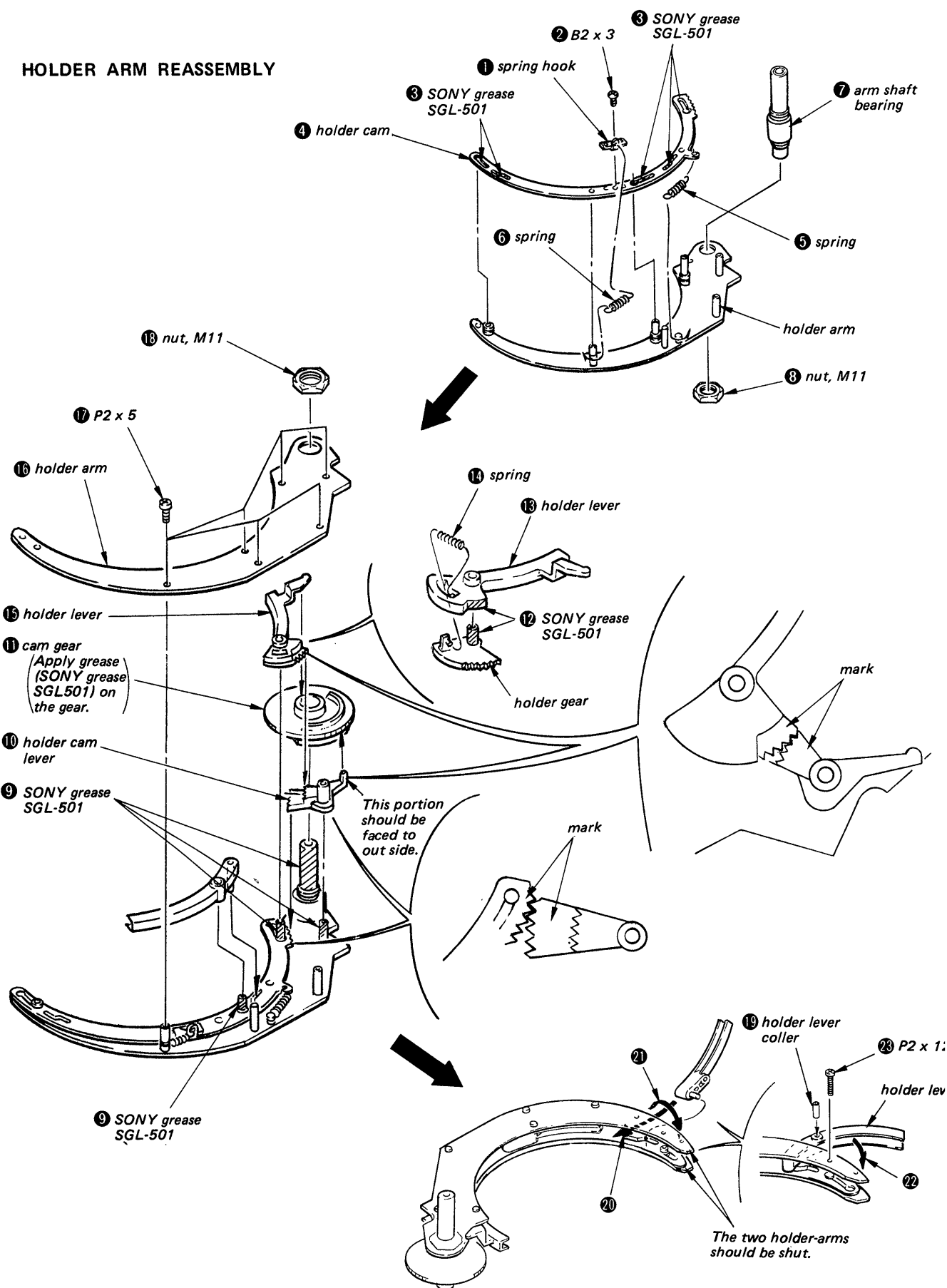
Note:
Set the spring, as illustrated.

Note:

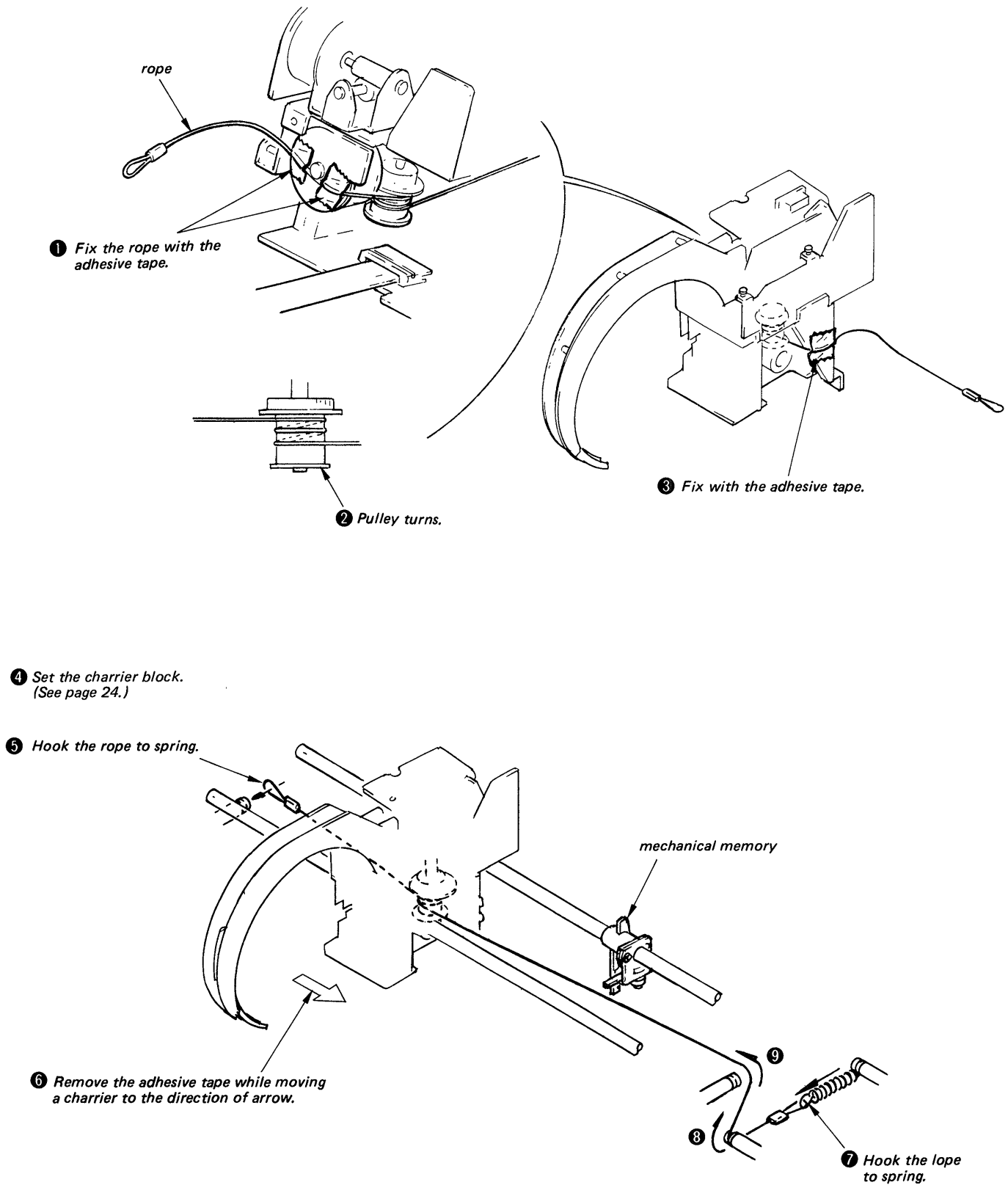
- 1) Set the com-gier and lording gear as illustrated.
- 2) After assembling middle gear, check the position of the three gears as illustrated.



HOLDER ARM REASSEMBLY



2-3. ROPE STRINGING



SECTION 3

ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

During the adjustment, see the parts location diagram relevant to the adjustment on page 36.

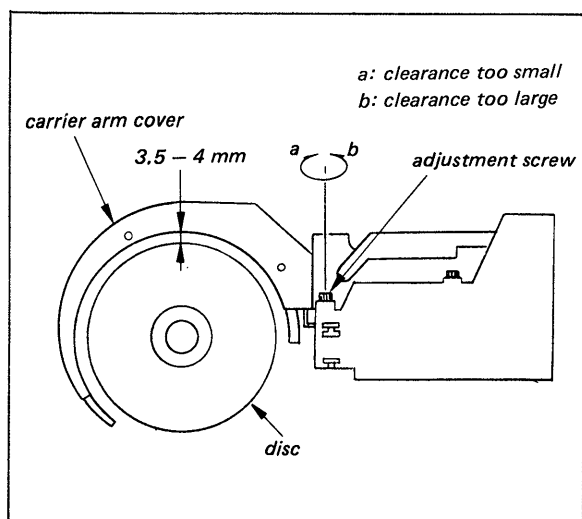
Perform the adjustments under TEST mode.

[TEST mode setting method]

1. Press RESET switch (S750) while pressing TEST switch (S771).
2. Release the TEST switch (S771), when D713 LED goes out.

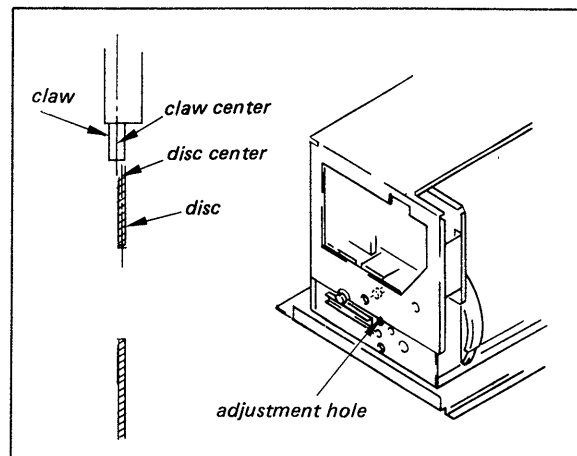
Carrier Arm Height Adjustment

1. Put set into test mode.
2. Insert a disc in the CD case slot number 19.
3. Press the RIGHT switch (S777) and move the carrier to the 17th slot position.
4. Adjust the adjustment screw so that the clearance between the carrier arm cover and the top surface of the disc is 3.5 – 4 mm.



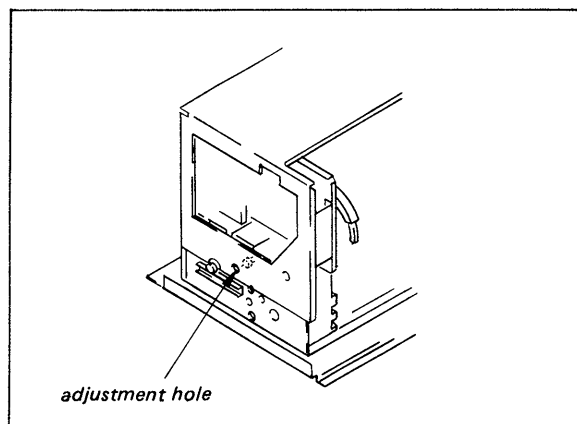
W Sensor Position Adjustment

1. Put set into test mode.
2. Insert a disc in the CD case slot number 19.
3. Press the RIGHT switch (S777) or LEFT switch (S774) and move the carrier to the 19th slot position.
4. Check the amount of shift of the position with the mirror an claw center to disc center, and move the carrier to the home position.
5. Adjust the carrier position with the hexagonal wrench, so that the claw center and the disc center are positioned on a straight line. (Observe with a mirror.)



Hold Switch (S705) Adjustment

1. Put set into test mode.
2. Move the carrier to 1st slot position by using the RIGHT switch (S777).
3. Press the A-F switch (S772) until the carrier arm is raised by 45 degrees.
4. Turn the adjustment screw counterclockwise through the adjustment hole with a hexagonal wrench and find the point where the switch switches.
5. From that position, turn 1.5 rotations more in the counterclockwise direction.
6. Press the A-R switch (S773) and open the carrier arm claw.

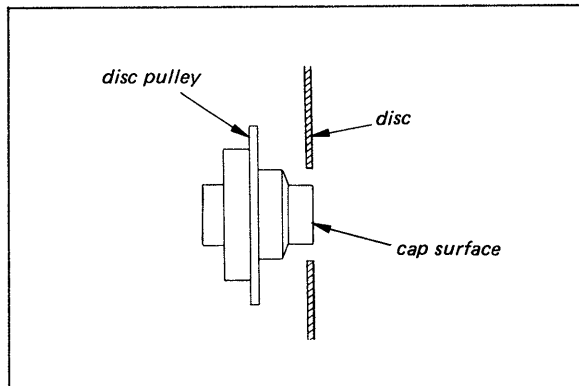


Carrier up Position Adjustment

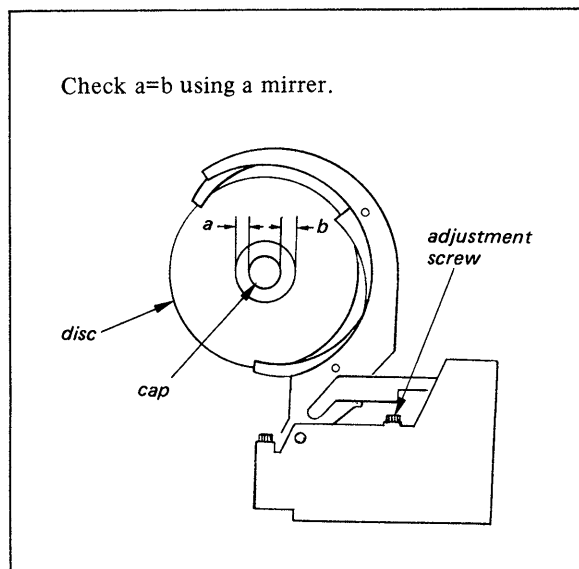
1. Put set into test mode.
2. Press the RLS switch (S776) to open the chucking arm fully.
3. Press the RIGHT switch (S777) or LEFT switch (S774) to move the carrier to the disc position.
4. Press the A-F switch (S772) so that the carrier

takes the disc and rises.

5. Press the LEFT switch (S774) to move the carrier to the left and stop when the disc playing surface reaches the cap surface.

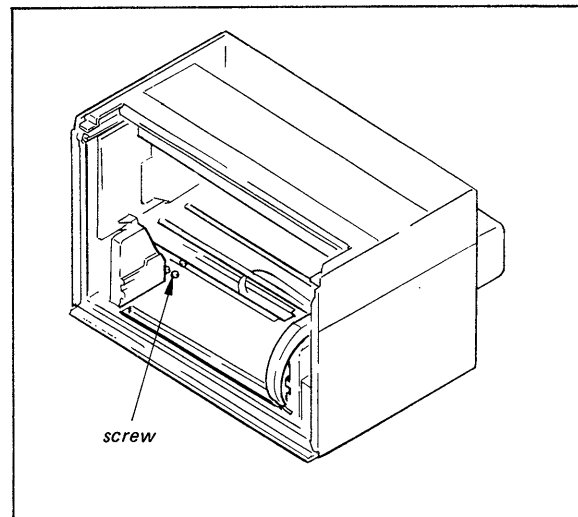


6. Adjust the adjustment screw so that the disc position relative to the cap is $a=b$.

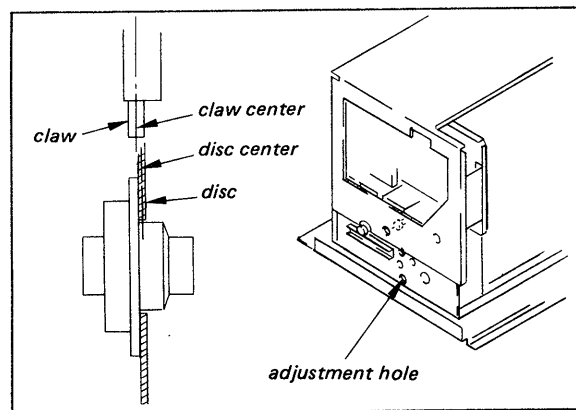


Home Position Adjustment

1. Put set into test mode.
2. If the disc is placed in the carrier arm, press the RIGHT switch (S777) and move the carrier to a position where there is no disc, then press the A-R switch (S773) and return the disc to the CD case. (At this time, keep to press the A-R switch (S773) until the carrier arm claw opens.)
3. Press the RIGHT switch (S777) to move the carrier fully to the right.
4. Remove the CD case and loosen the screw shown in the diagram below.
When loosening the screw, wipe off the locking compound by the alcohol.



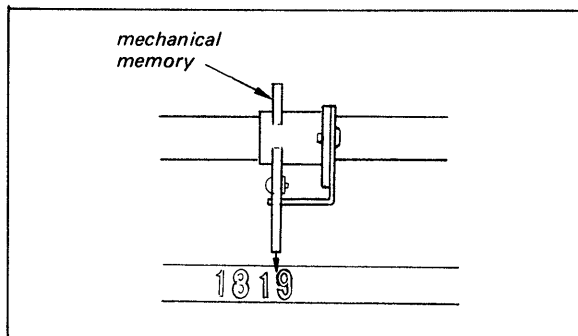
5. Install the CD case.
6. Press the LEFT switch (S774) to move the carrier to a position where there is no disc.
7. Press the A-F switch (S772) repeatedly until the arm stops moving.
8. Press the LEFT switch (S774) to move the carrier to the tentative home position.
9. Place the disc on the MD spindle, and press the HOLD switch (S775) so that the disc is firmly fixed.
10. Insert hexagonal wrench into the adjustment hole and adjust so that the center of the carrier arm claw and the center of the disc are lined up.



11. After pressing RIGHT switch (S777) to return the carrier to PLAY position, press LEFT switch (S774) to move the carrier to the home position once again.
Repeat above movement several times for checking the condition of the claw and the disc.
12. Remove the CD case and tighten the screw which was loosened in step 4.

Mechanical Memory Setting

1. Put set into test mode.
2. Set the tip of the mechanical memory to any of the numbers (1 – 60) located under the mechanical memory and there should be no disc there.

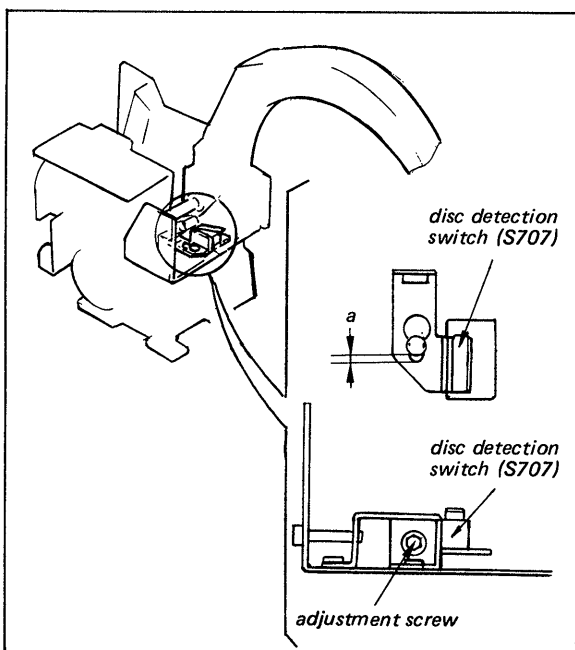


3. With the carrier arm up, press the RIGHT switch to move the carrier until the MECH MEM LED (D711) lights up.
4. Press the A-R switch (S773) to lower the carrier arm.
5. Press the RIGHT switch (S777) and LEFT switch (S774) to move the carrier back and forth several slots worth and confirm that the mechanical memory is not released.

Disc Detection Switch (S707) Adjustment

1. Put set into test mode.
2. Loosen the adjustment screw to meet the specification.

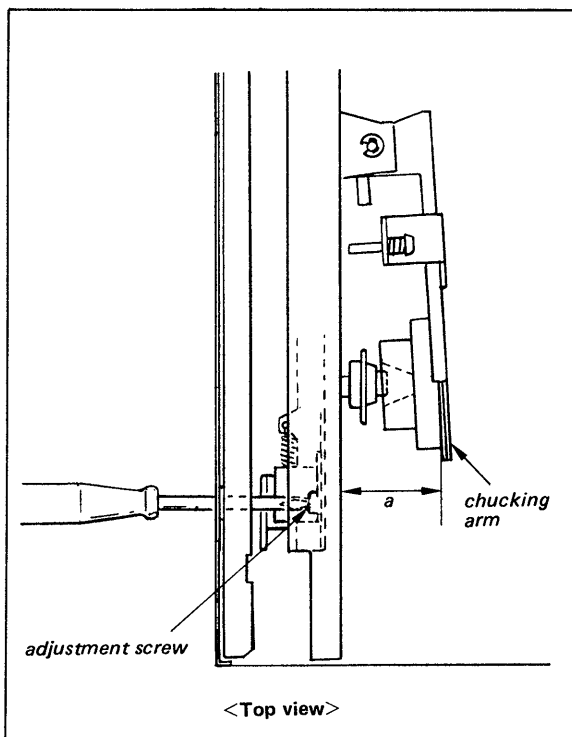
Specification: $a = 1 \text{ mm}$



MID Position Adjustment

1. Put set into test mode.
2. Open the chucking arm by pressing RLS switch (S776).
3. Press the HOLD switch (S775) once, and adjust the distance "a" by adjustment screw, after chucking arm stops. "a" should be in $39.5 \pm 1 \text{ mm}$.
4. Repeat the steps 2 and 3 several times for the specification.
5. After the specification is satisfied, apply locking compound to the adjustment screw.

Specification: $a = 39.5 \pm 0.5 \text{ mm}$

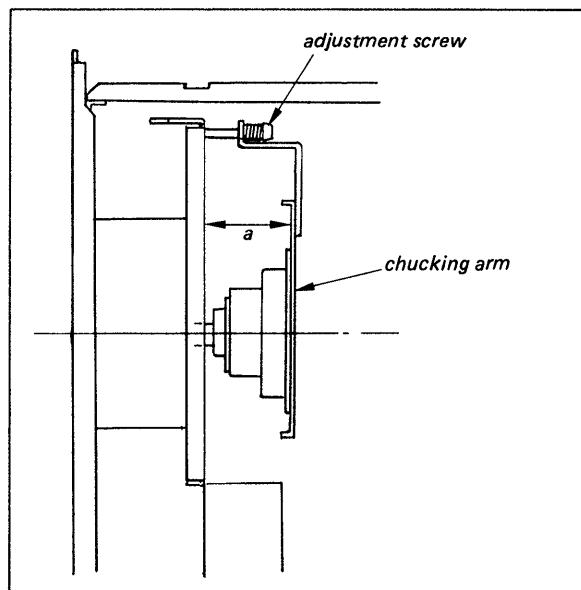


Chucking Arm Height Adjustment

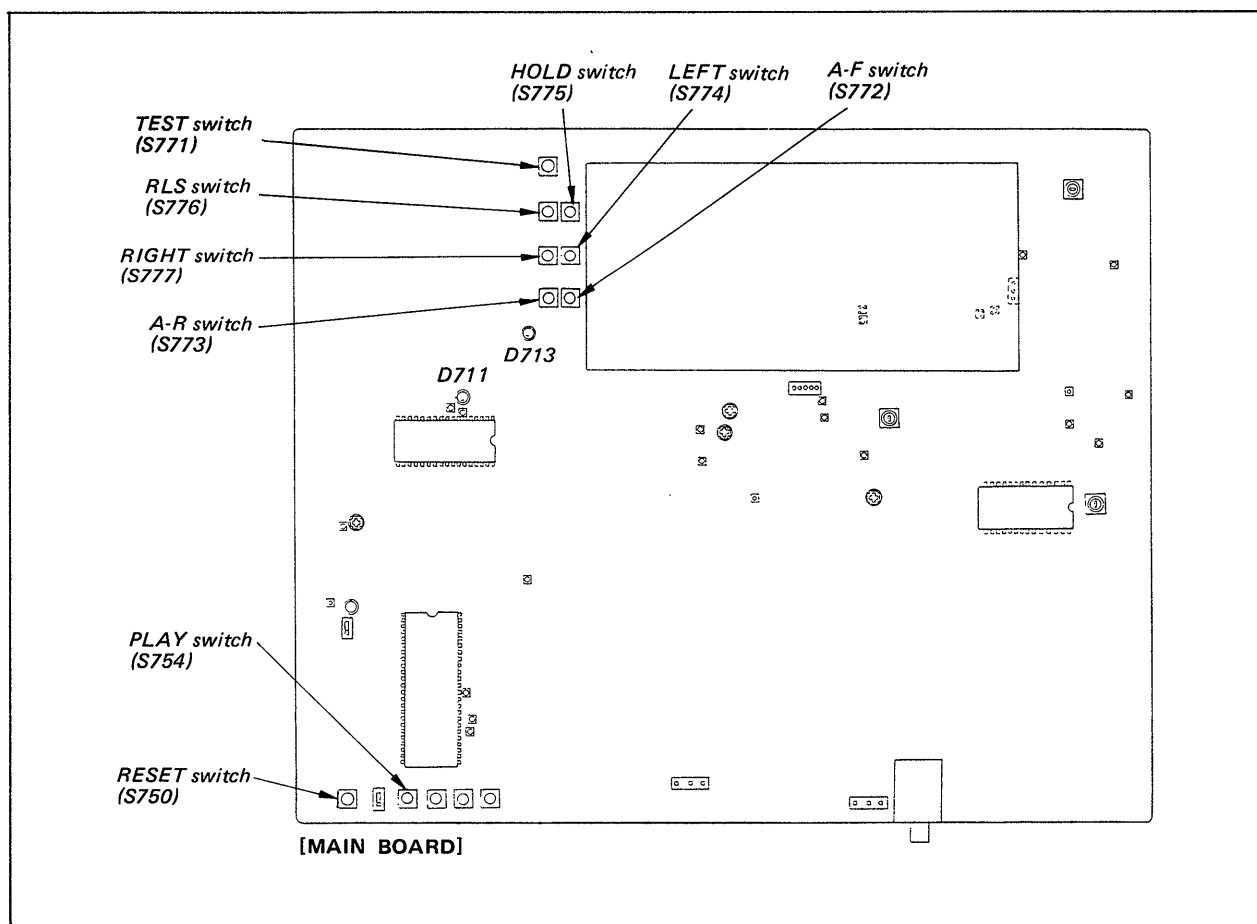
1. Put set into test mode.
2. Open the chucking arm by pressing RLS switch (S776).
3. Press HOLD switch (S775) once. And then after the chucking arm stops (at the MID position), press once again the HOLD switch (to move to the chucking position).
4. Turn the adjustment screw so that the "a" between tip of the chucking arm and the frame becomes in $32 \pm 0.5 \text{ mm}$.
5. Repeat the steps 2 to 4 several times for the specification.

6. Finally apply locking compound to the adjustment screw.

Specification: $a = 32 \pm 0.5 \text{ mm}$



PARTS LOCATION DIAGRAM RELEVANT TO THE ADJUSTMENT



3-2. ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order described.
2. Use YEDS-1 (Part No. 3-703-696-01) disc unless otherwise indicated.
3. Use an oscilloscope which has more than 10 M Ω impedance.

Adjustment Mode

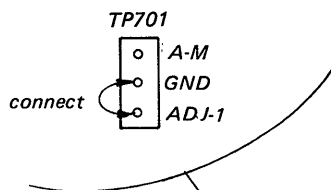
1. Connect test point TP701 (ADJ-1) on main amp board and GND.

[This is to prevent the disc table from opening even though pits are not read, by making micro-computer IC705 pin (9) low.]

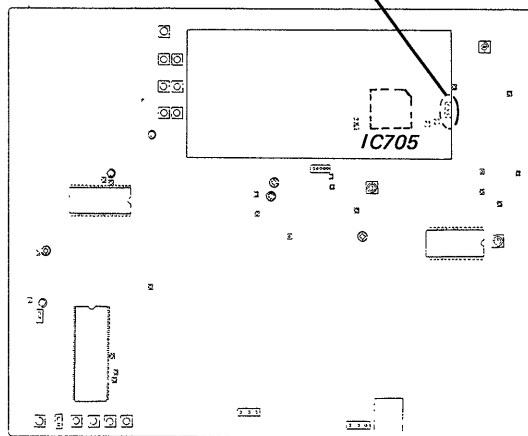
2. Turn on the power switch (S1).
(To reset microcomputer.)

After adjustment, remove the lead wire connecting test point TP701 (ADJ-1) and GND.

Adjustment Location: main board

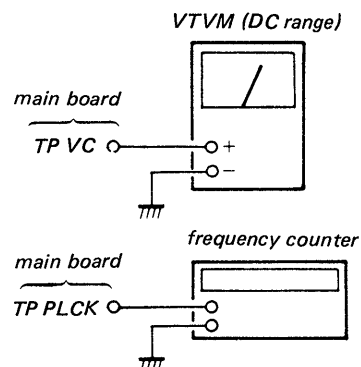


[MAIN BOARD]



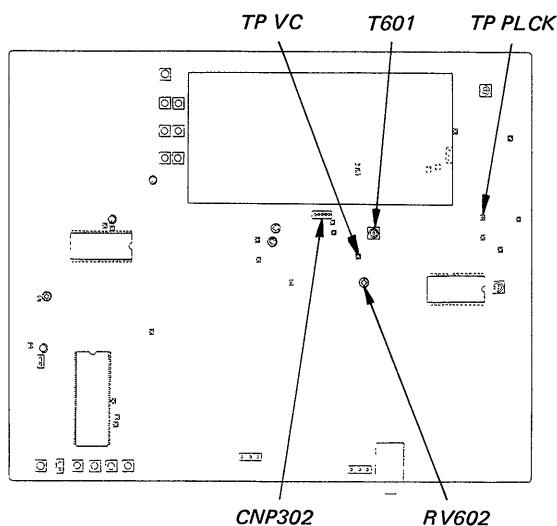
RF PLL Adjustment

Procedure:



1. Turn on the POWER switch. (Stop state)
2. Pull out the connector of CNP302.
3. Set a unit into adjustment mode.
4. Connect VTVM to the test point TP VC on main board.
5. Adjust RV602 for 0 V $\pm$ 50 mV reading on VTVM.
6. Connect frequency counter to the test point TP PLCK on main board.
7. Adjust T601 on main board for 4.3218 MHz $\pm$ 10 kHz reading on the frequency counter.
8. Take out the lead wire soldered in adjustment mode. Connect CNP302 as it was before step in the above 2.
9. Put YEDS-1 disc in and press the button $\triangleright$ PLAY.
10. Confirm that the reading on the frequency counter is 4.3218 MHz.

Adjusting Location: main board



REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

This gain has a margin, however so even if it is slightly off, there is no problem. In this case, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up performance (in vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operates.

As these are conflicting matter, the adjustment is at the point where both are satisfied.

- When gain is in high, the noise when the 2-axis device moves increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

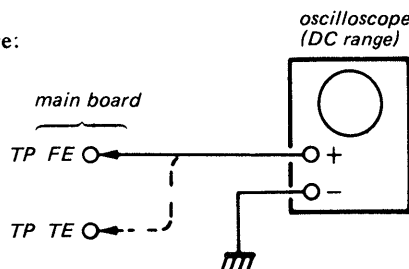
Gain Symptoms	Focus	Tracking
• The time until music starts becomes longer at STOP → PLAY and/or AMS function (when pressing buttons ◀◀, ▶▶). (Normally takes about a second.)	low	low or high
• Music does not start and disc continues to rotate at STOP → PLAY and/or AMS function (when pressing buttons ◀◀, ▶▶).	—	low
• Disc table opens by itself shortly after STOP → PLAY.	low or high	—
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• Noise increases during 2-axis device movement.	high	high

The following is a simple adjustment method.

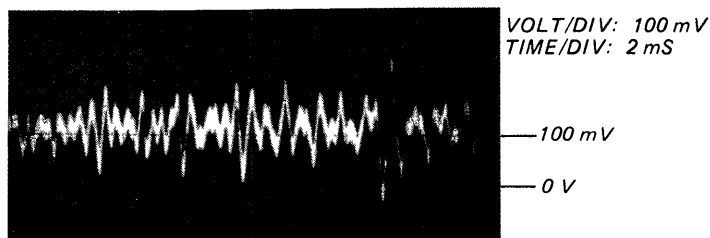
— Simple Adjustment —

Note: Exact adjustment cannot be performed. Remember the positions of the controls before performing the adjustment, and return the controls to the position as it is before, if the positions after the simple adjustment are only a slight different.

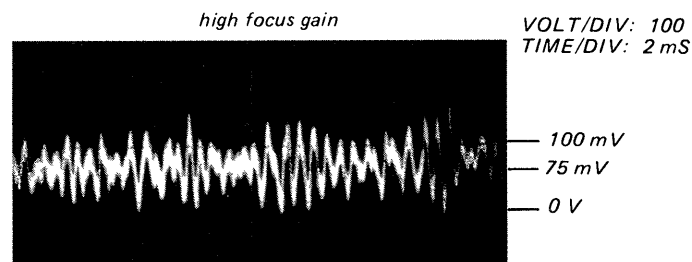
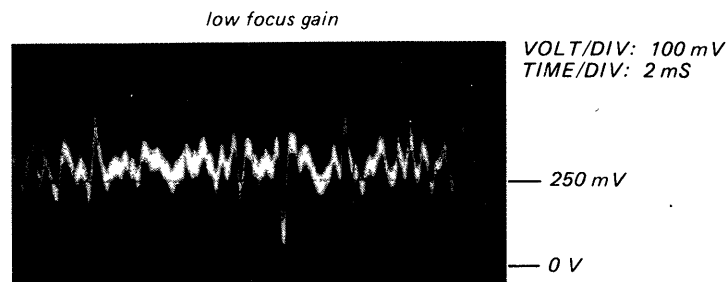
Procedure:



1. Place the set in horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Make the unit in adjustment mode. (See page 37.)
3. Put disc YEDS-1 in and press the button ▷ PLAY.
4. Connect oscilloscope to main board TP FE.
5. Adjust RV501 so that the waveform becomes as shown in the figure below. (focus gain adjustment)

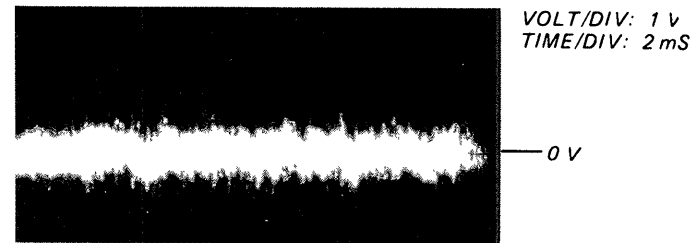


- Incorrect Examples (DC level varies widely compared with adjusting waveform)

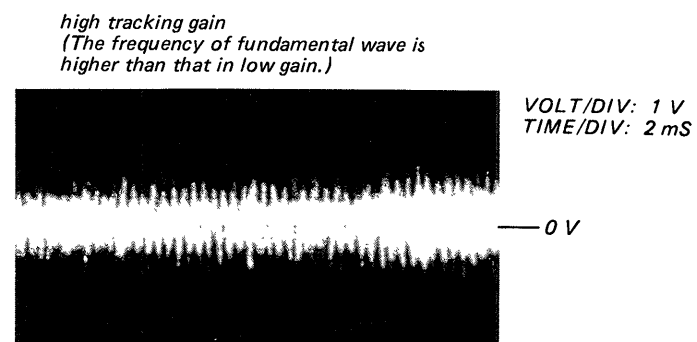
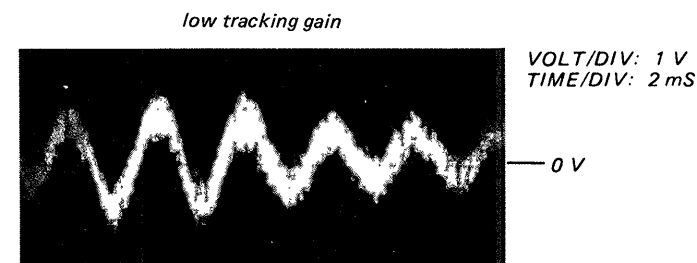


SECTION 4 DIAGRAMS

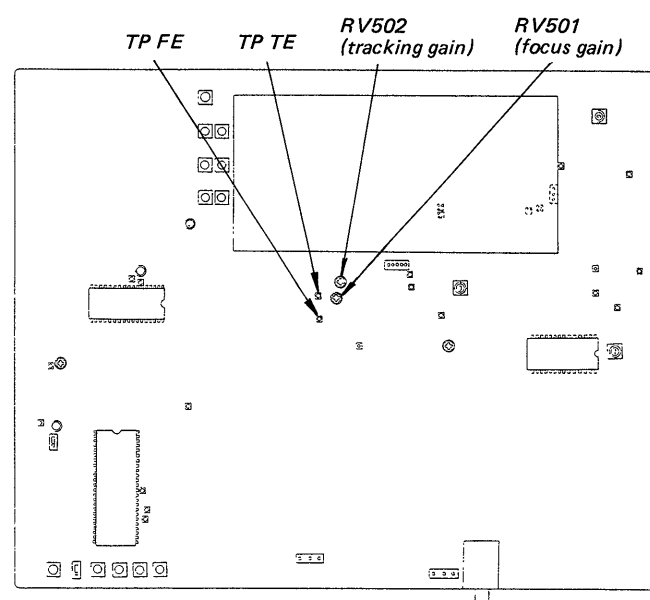
6. Connect oscilloscope to main board TP TE.
7. Adjust RV502 so that the waveform is as shown in the figure below. (tracking gain adjustment)



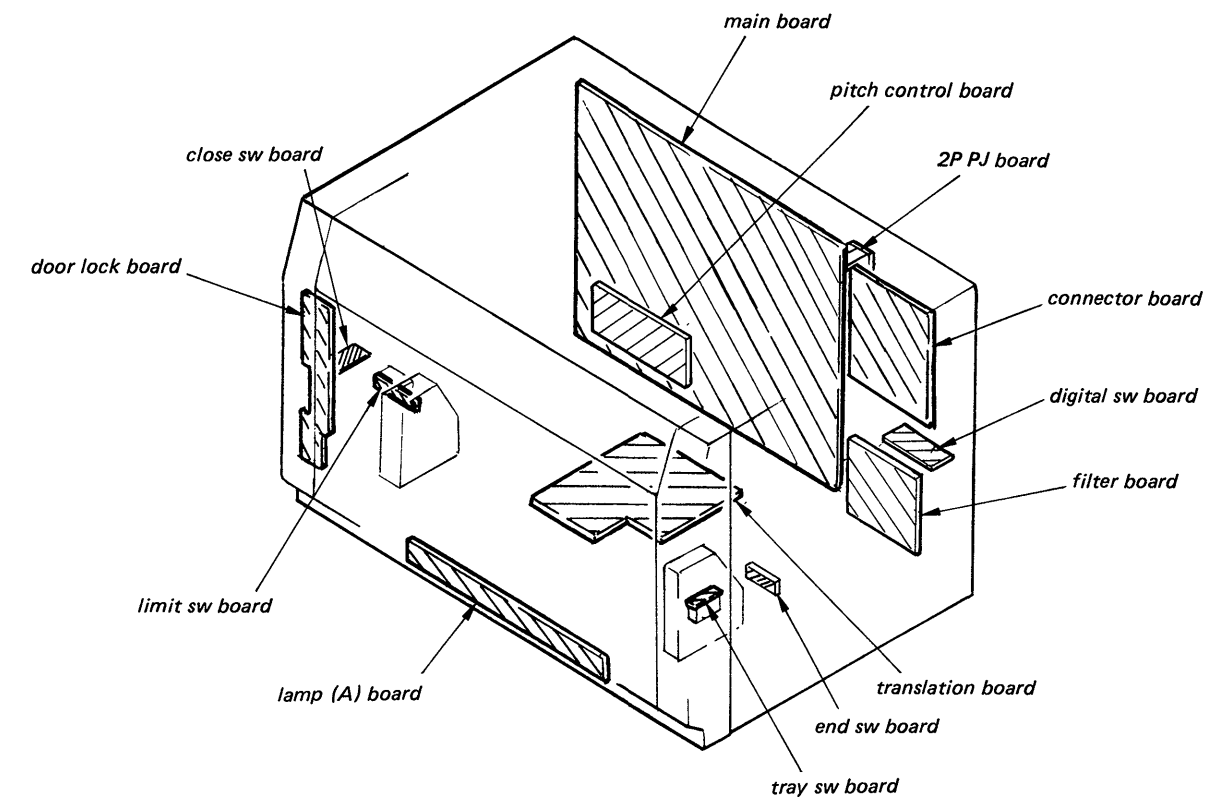
- Incorrect Examples (fundamental wave appears)



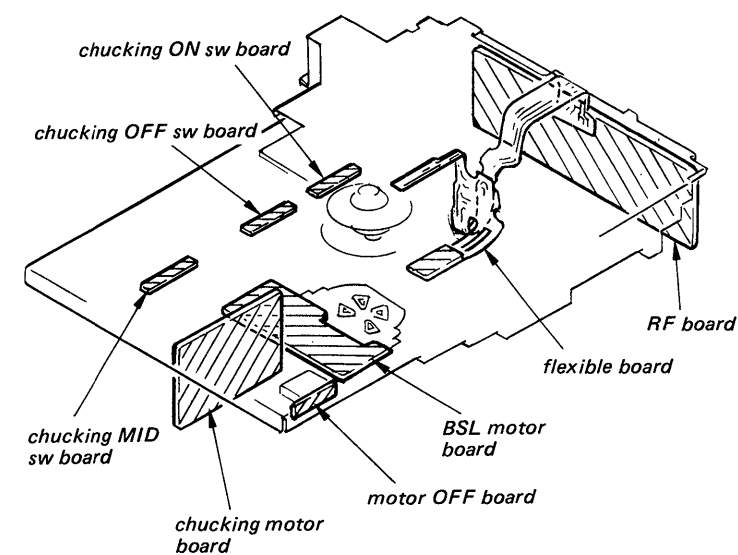
Adjustment Location: main board



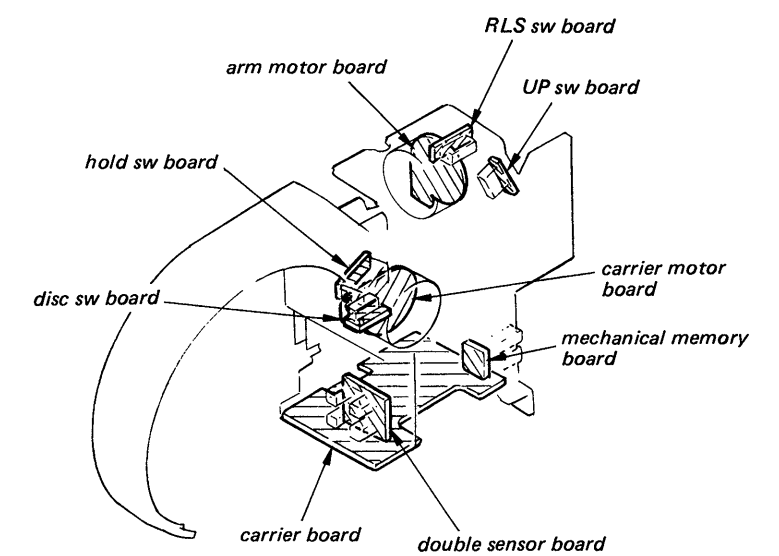
4-1. CIRCUIT BOARDS LOCATION



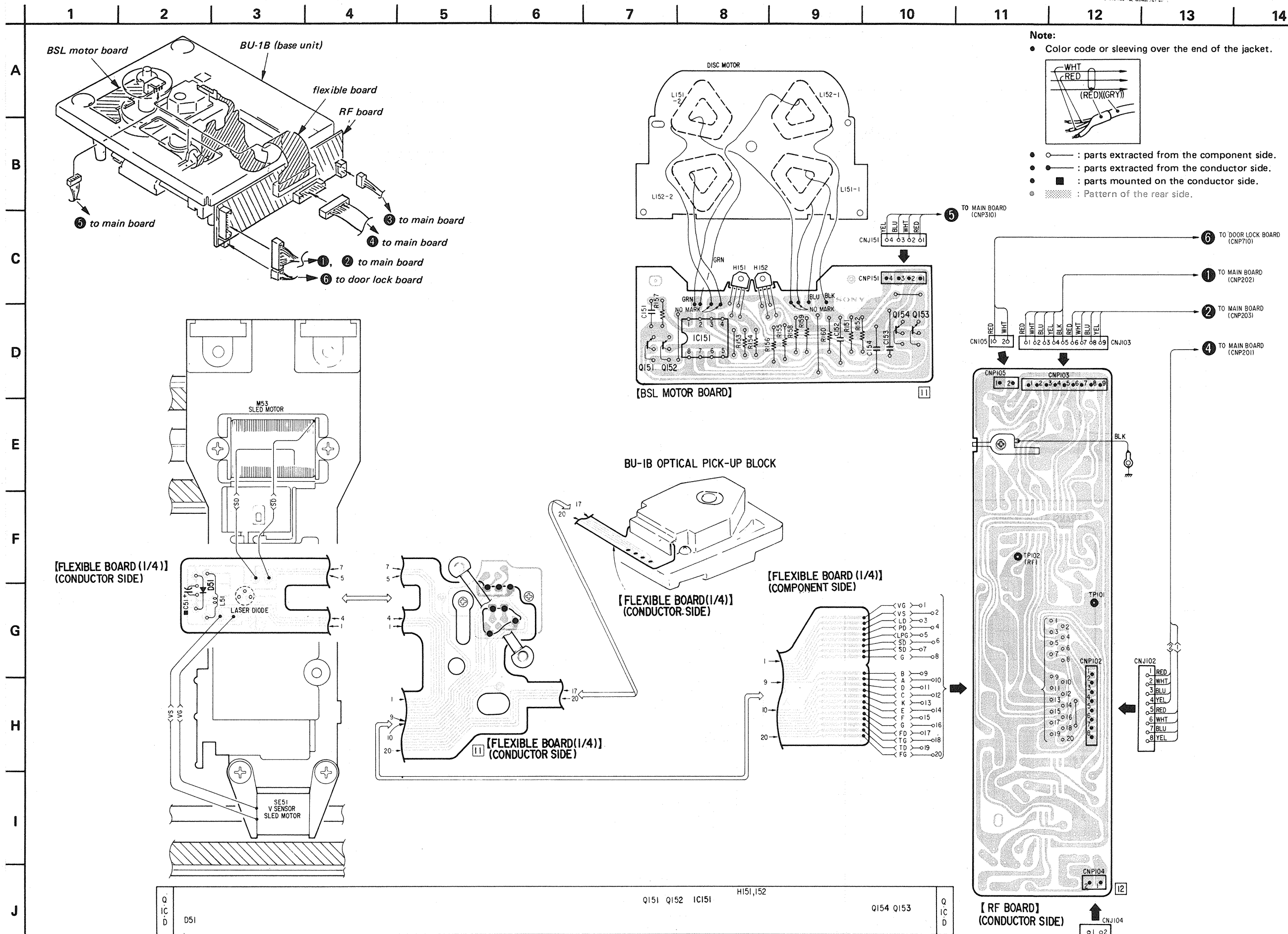
• MD SECTION

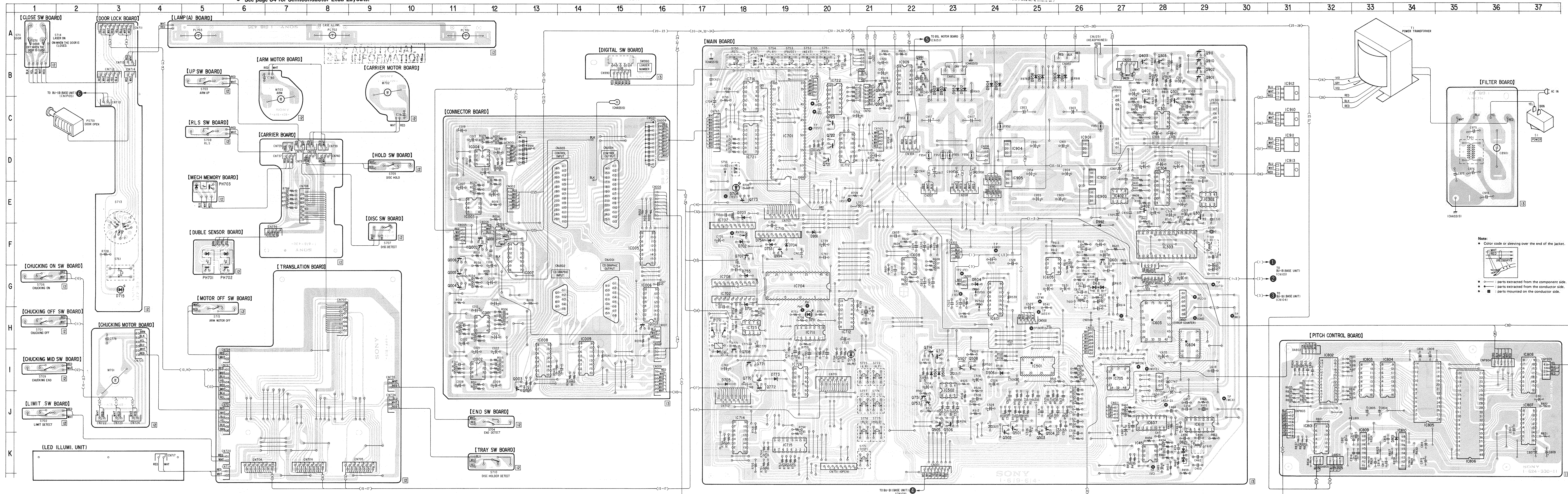


• CARRIER SECTION



4-2. MOUNTING DIAGRAM — BU-1B (BASE UNIT) SECTION —



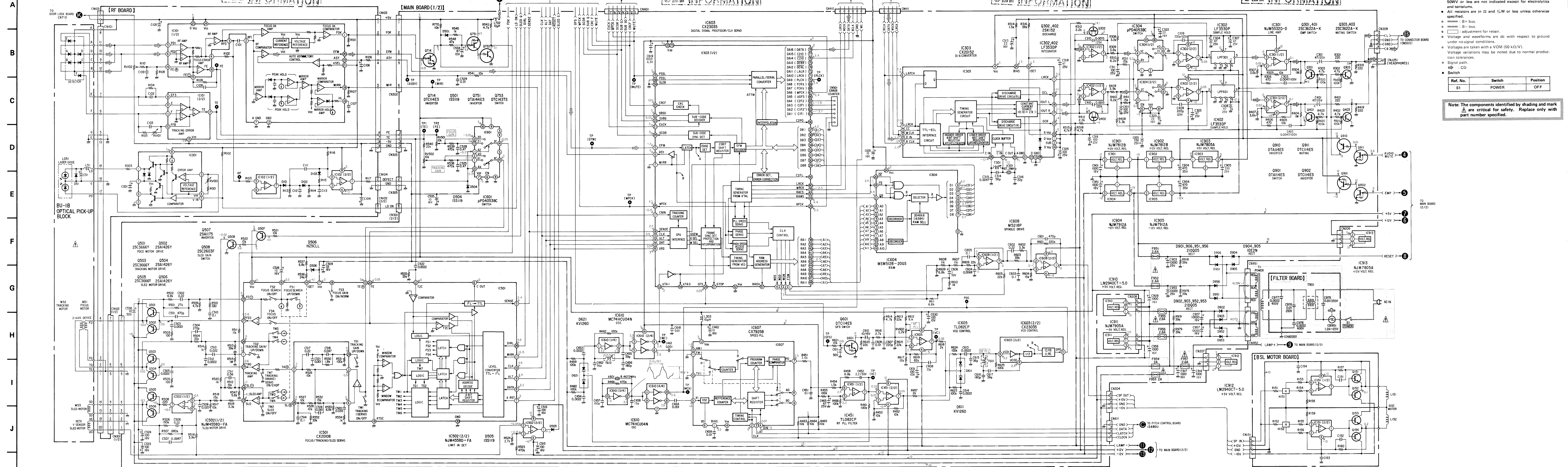


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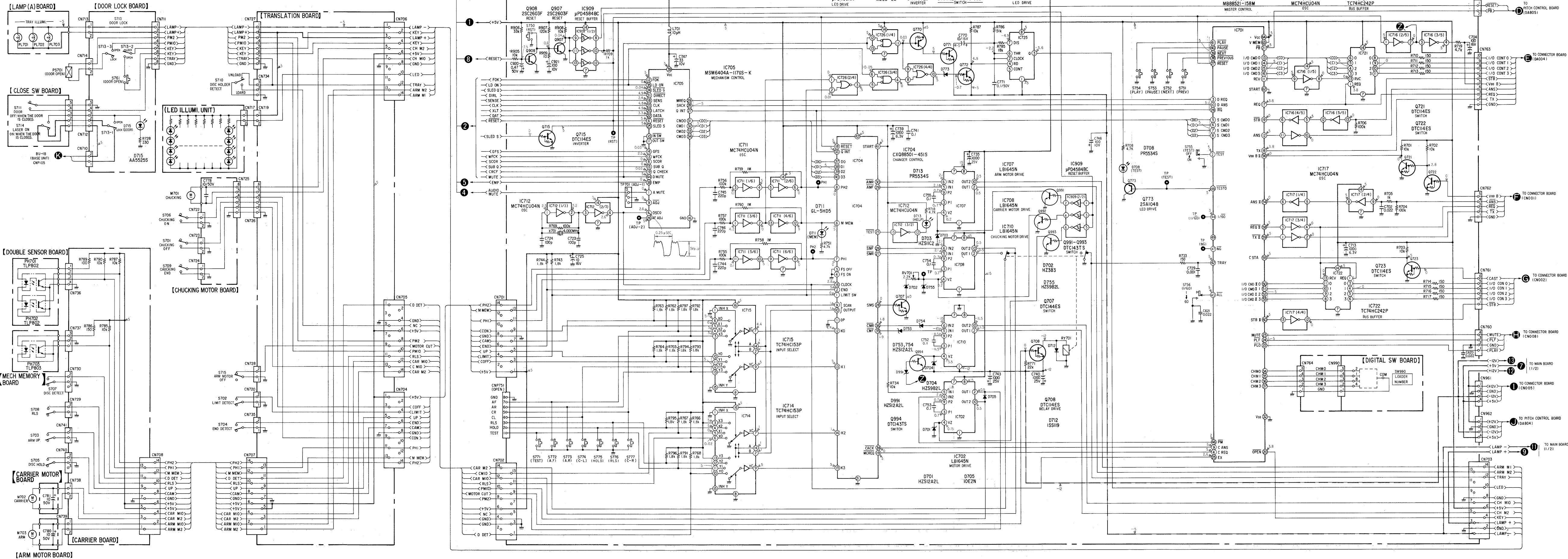
SEE ADDITIONAL
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INFORMATIONSEE ADDITIONAL
INFORMATION

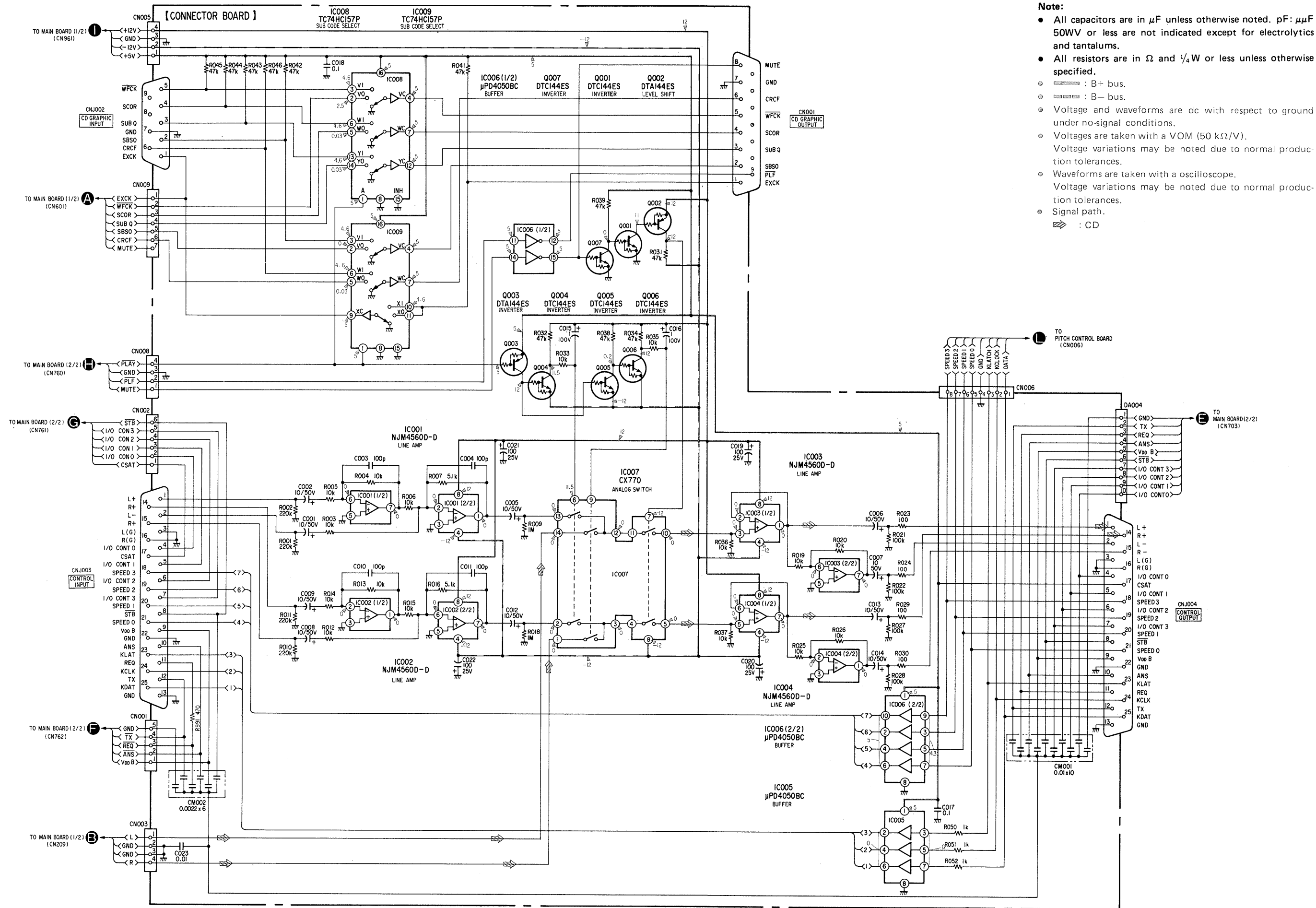
4.5. SCHEMATIC DIAGRAM — CONTROL SECTION — A

Note:

- All capacitors are in μF unless otherwise noted. pF : μF F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\text{---} \text{B} + \text{bus}$.
- $\text{---} \text{B} - \text{bus}$.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S701	CHUCKING	OFF
S702	LIMIT OFF	OFF
S703	ARM UP	OFF
S704	END DETECT	OFF
S705	DISC HOLD	OFF
S706	CHUCKING ON	OFF
S707	DISC DETECT	OFF
S708	RLS	OFF
S709	CHUCKING END	OFF
S710	DISC HOLD DETECT	INSTALL
S711	DOOR OPEN/CLOSE	OFF
S713	DOOR OPEN RELEASE	OFF
S714	LASER ON	ON
S715	ARM MOTOR OFF	OFF
S750	RST	OFF
S751	PREV	OFF
S752	NEXT	OFF
S753	PAUSE	OFF
S754	PLAY	OFF
S755	TEST	OFF
S756	ALL	1
S761	DOOR OPEN	OFF
S771	TEST	OFF
S772	A-F	OFF
S773	A-R	OFF
S774	C-L	OFF
S775	HOLD	OFF
S776	RLS	OFF
S777	C-R	OFF
SW990	LORDER NUMBER	"0"





1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

A

B

C

D

E

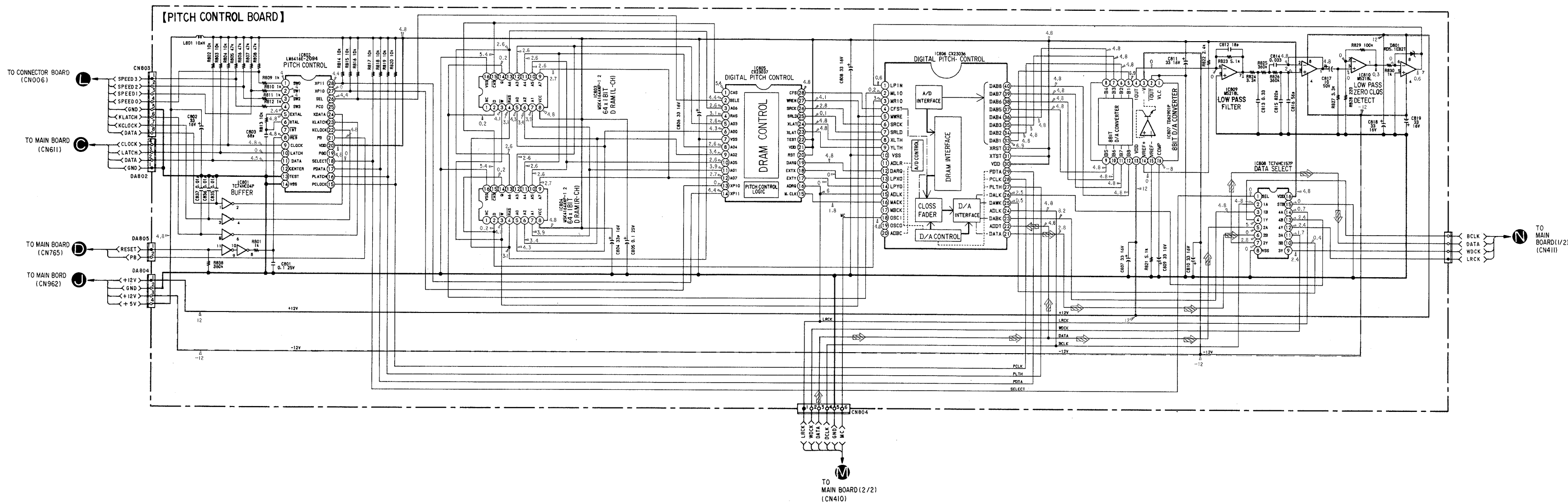
F

G

H

I

J

SEE ADDITIONAL
INFORMATION

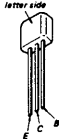
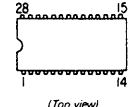
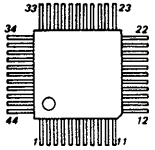
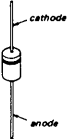
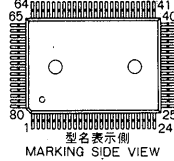
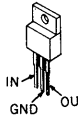
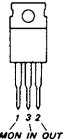
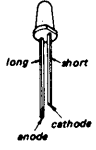
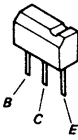
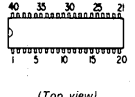
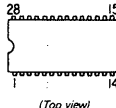
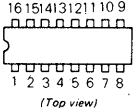
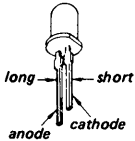
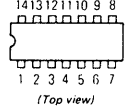
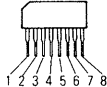
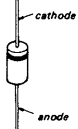
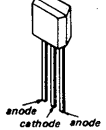
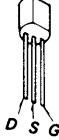
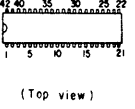
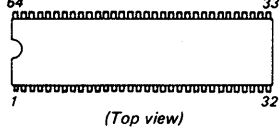
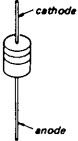
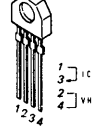
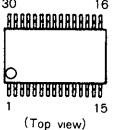
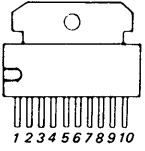
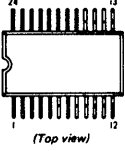
Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- --- : B+ bus.
- --- : B- bus.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Signal path.
- --- : CD
- Switch

Ref. No.	Switch	Position
S801	TEST	OFF

SEE ADDITIONAL
INFORMATION

4-8. SEMICONDUCTOR LEAD LAYOUTS

2SA1175 	CX20152 CX23037  (Top view)	LF353DP M5218P NJM4558D NJM4558D-FA NJM4560D-D NJM5532D-D TL082CP  (Top view)	MSM6404A-117GS-K 	21DQ05 
2SA1345 2SA1348 2SC634SP 2SC3402 DTC143TS DTC144ES 	CX23035  MARKING SIDE VIEW	LM2940CT-5.0 NJM7805A NJM7812B μPC7815H  IN GND OUT	NJM7905A μPC7912H  COMMON IN OUT	AA5525S 
2SA1426Y 2SC3666Y 	CX23036  (Top view)	LM6416E-2094  (Top view)	HD14053BP MB8264A-15P TC74HC153P TC74HC157P TD62901P μPD4050BC  (Top view)	GL-5HD5 
2SC3622A-K 	CX770 CX7925B MC74HCU04N TC74HC04P TC74HC242P μPD4001BC μPD4584BC  (Top view)	M5218L 	10E2N 1SS132 HZ3B3 HZ5CLL HZ6B2L RD5.1EB2 	KV1260 
2SK152-3 	CXQ88501-451S  (Top view)	MB88521-158M  (Top view)	1SS133 HZ12A2L HZS9B2L HZS11C2L 	THS103A-1 
CX20108  (Top view)	LB1645N 	MSM5128-20GS  (Top view)		

SECTION 5

EXPLODED VIEWS AND PARTS LIST

NOTE:

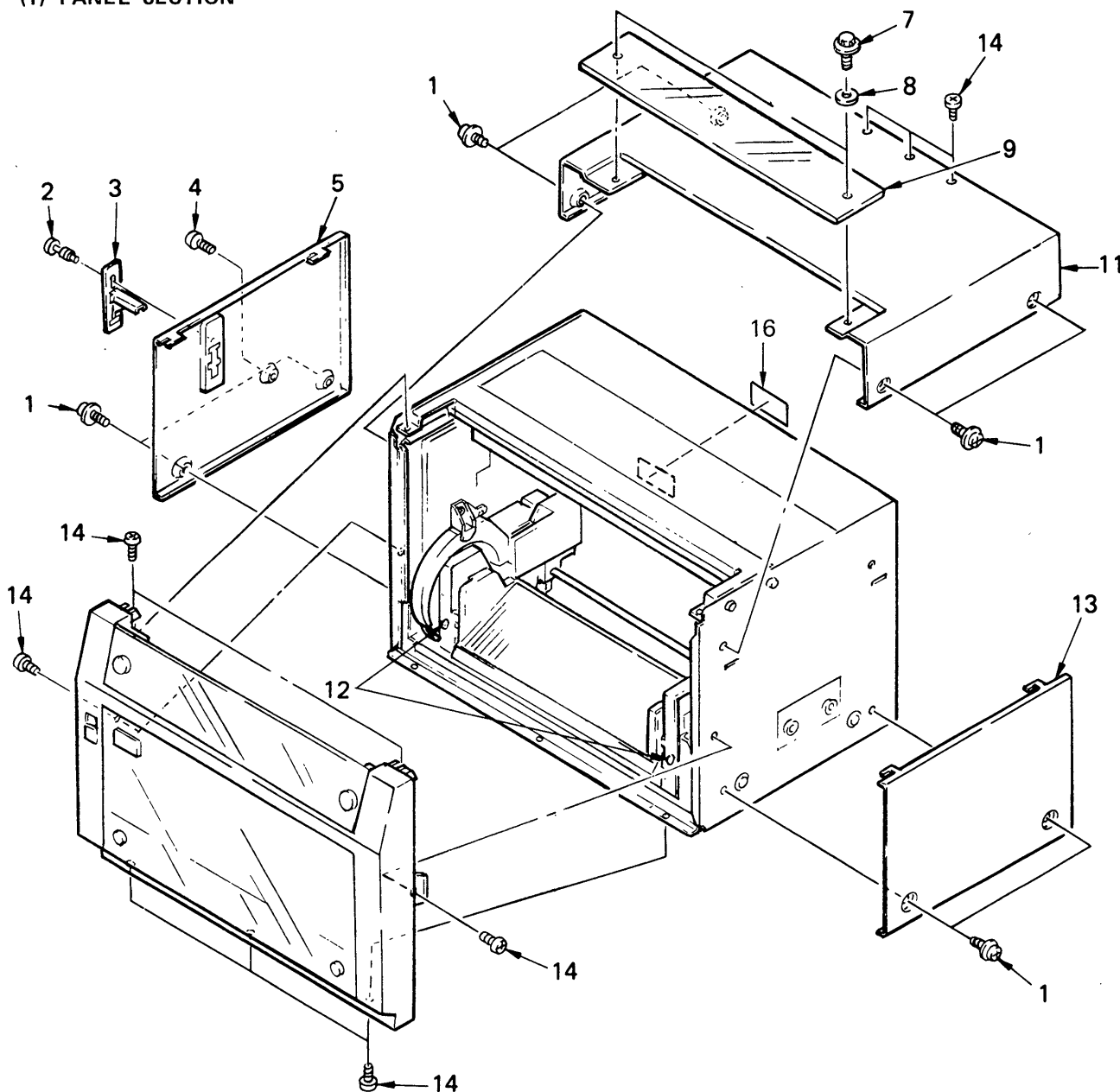
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)

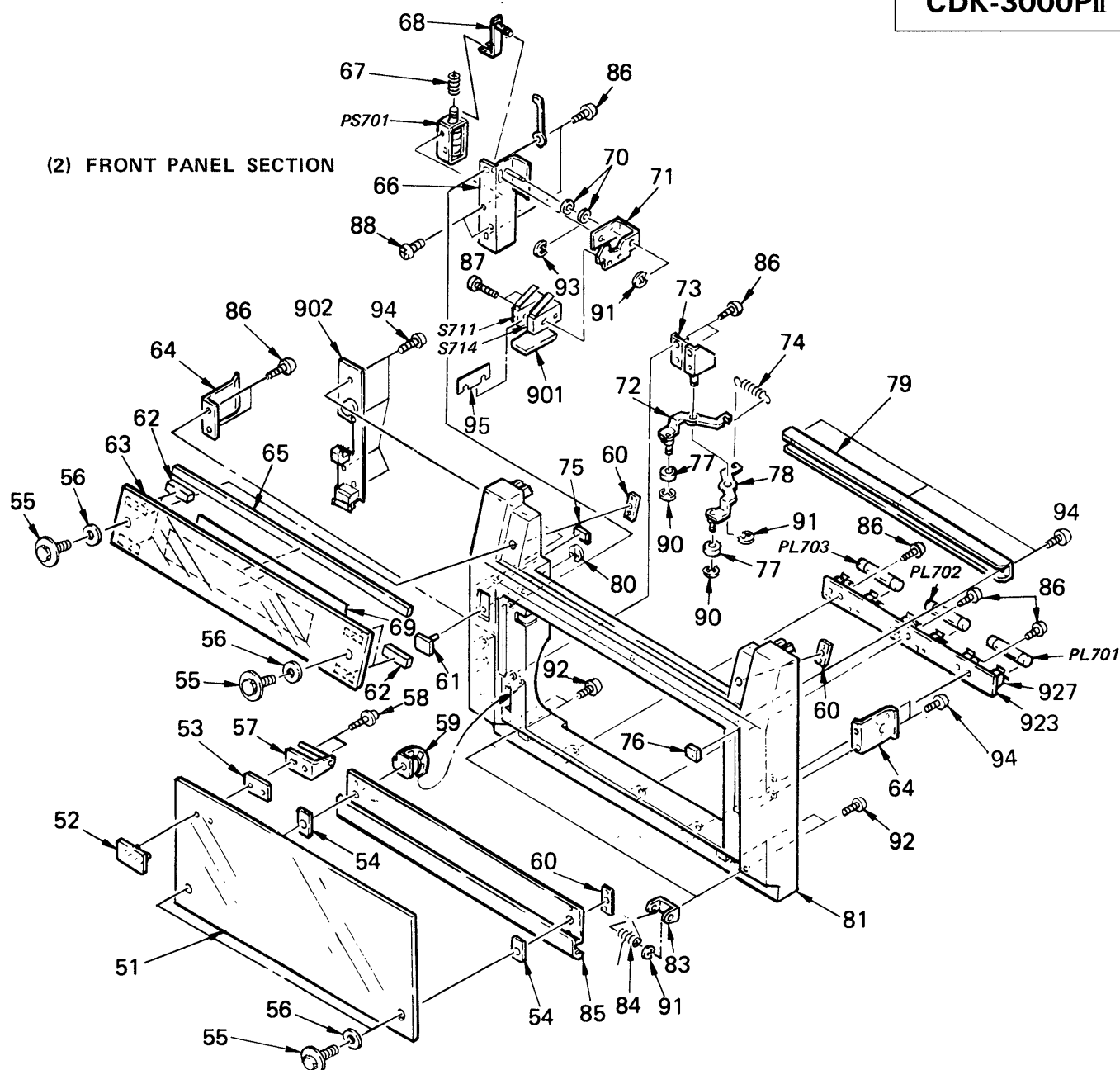
↑ Cabinet's Color ↑ Parts' Color

The components identified by shading and mark are critical for safety. Replace only with part number specified.

(1) PANEL SECTION

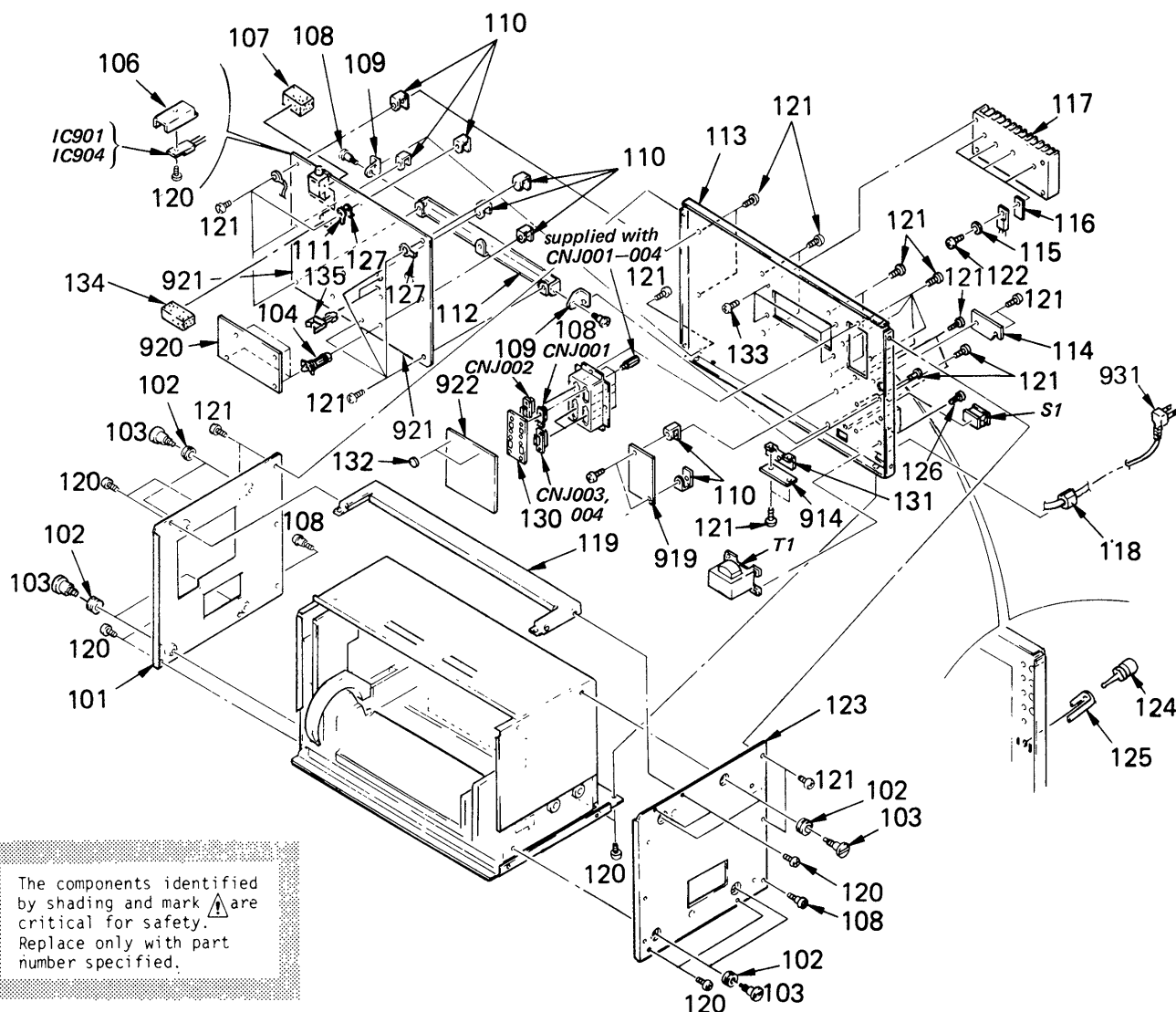
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-889-321-31	SCREW		9	4-915-890-01	WINDOW (C), GLASS	
2	4-915-026-01	SCREW, TRANSPORT ARM		11	4-915-200-11	CASE, UPPER	
3	*4-915-182-01	LEVER (BU), TRANSPORT LOCK		12	4-915-854-01	LABEL, MARK	
4	7-782-666-09	SCREW (PSW) (4X20), TRANSPORT		13	4-915-186-11	CASE, RIGHT	
5	4-915-187-11	CASE, LEFT		14	7-682-547-09	SCREW +B 3X6	
7	4-915-243-01	SCREW (FLANGE) (M4X12.5), LH		16	*4-885-838-00	LABEL, CLASS 1	
8	4-915-042-01	WASHER (DIA.4)					

(2) FRONT PANEL SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-915-184-41	DOOR, GLASS		78	*X-4915-007-1	LEVER (A) ASSY, FRICTION	
52	4-915-059-01	PLATE, ORNAMENTAL, DOOR		79	*4-915-159-01	REINFORCEMENT, PANEL	
53	4-915-040-01	CUSHION (B), RUBBER		80	7-624-190-81	STOP RING 2, TYPE-CS	
54	4-915-039-01	CUSHION (A), RUBBER		81	4-915-198-11	PANEL	
55	4-915-243-01	SCREW (FLANGE) (M4X12.5), LH		83	4-915-057-01	HINGE, DOOR	
56	4-915-042-01	WASHER (DIA.4)		84	4-915-058-01	SPRING	
57	X-4915-010-1	PLATE ASSY, LOCK, DOOR		85	X-4915-821-1	PANEL ASSY, DOOR	
58	7-687-233-11	SCREW (+ PTPWH) (2.6X6)		86	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
59	*4-915-063-01	STAY		87	7-621-258-05	SCREW +P 2.3X16	
60	4-915-055-01	HOLDER, GLASS		88	7-621-284-00	SCREW +P 2.6X4	
61	4-901-617-11	BUTTON, LIFTER		90	7-624-104-04	STOP RING 2.0, TYPE -E	
62	4-915-127-01	CUSHION (B), GLASS		91	7-624-106-04	STOP RING 3.0, TYPE -E	
63	4-915-891-01	WINDOW (D), GLASS		92	7-682-948-09	SCREW +PSW 3X8	
64	*4-915-062-01	BRACKET, PANEL		93	7-624-105-04	STOP RING 2.3, TYPE -E	
65	4-915-128-01	CUSHION (C), GLASS		94	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
66	*X-4915-005-1	HOLDER ASSY, SOLENOID		95	*4-915-227-01	SPACER, SW	
67	4-915-038-01	SPRING (SOLENOID), COMPRESSION		901	*1-618-438-11	PC BOARD, CLOSE SW	
68	*X-4915-009-1	LEVER ASSY, SOLENOID		902	*A-4644-290-A	MOUNTED PCB, DOOR LOCK	
69	4-915-856-01	FILTER, DIFFUSION		923	*A-4655-028-A	MOUNTED PCB, LAMP (A)	
70	3-701-441-21	WASHER		927	1-517-072-00	LAMP HOLDER	
71	*4-915-061-01	LEVER, LOCK		PL701	1-518-594-11	LAMP, PILOT	
72	*X-4915-008-1	LEVER (B) ASSY, FRICTION		PL702	1-518-594-11	LAMP, PILOT	
73	*X-4915-006-1	HOLDER ASSY, FRICTION LEVER		PL703	1-518-594-11	LAMP, PILOT	
74	3-618-263-01	SPRING		PS701	1-454-411-11	SOLENOID, PLUNGER	
75	4-879-561-00	COVER (B), LED		S711	1-570-562-11	SWITCH, MICRO (DOOR)	
76	3-831-441-11	CUSHION (B)		S714	1-570-562-11	SWITCH, MICRO (LASER ON)	
77	4-915-060-01	ROLLER, FRICTION					

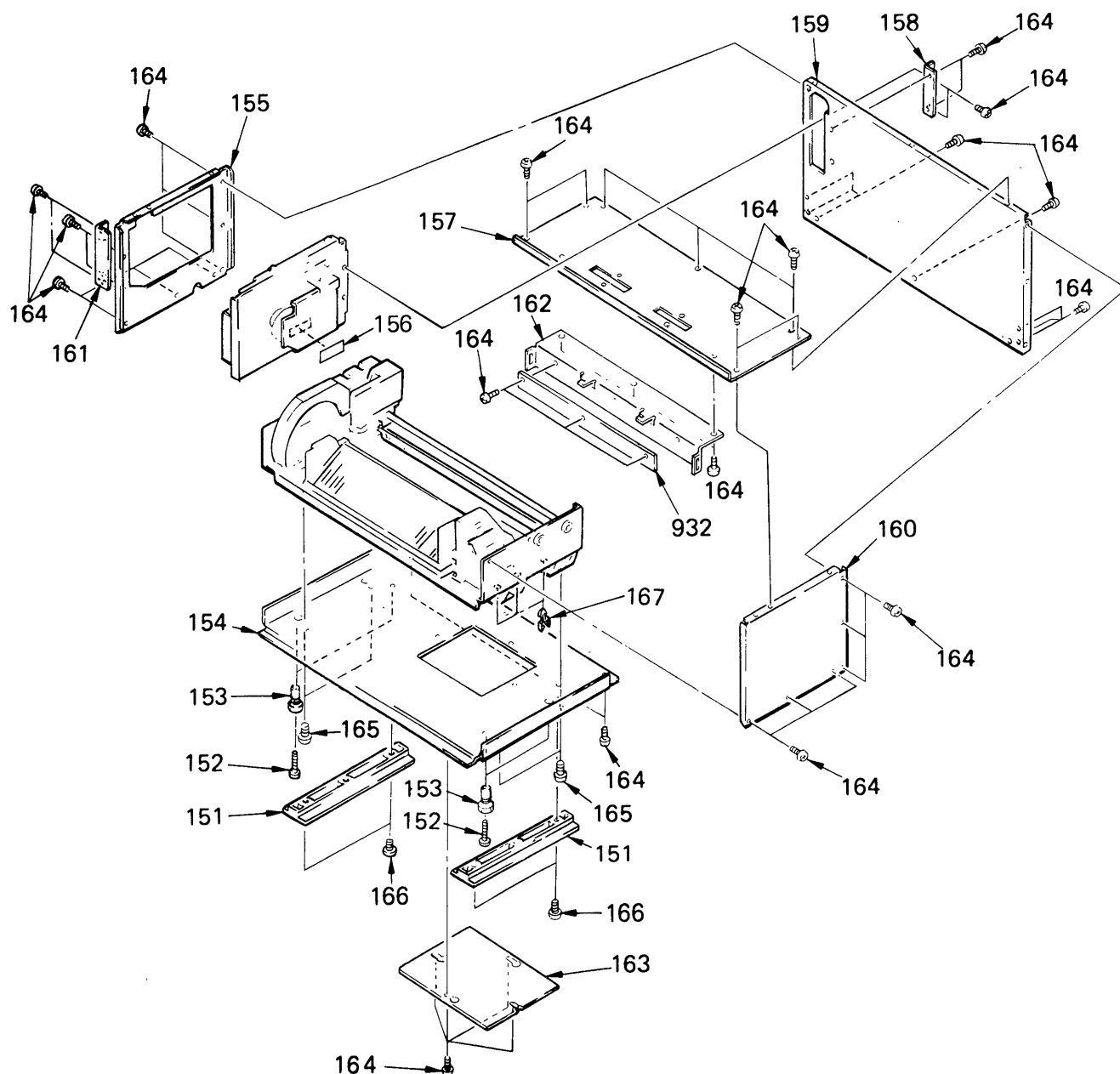
(3) CHASSIS SECTION-1



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

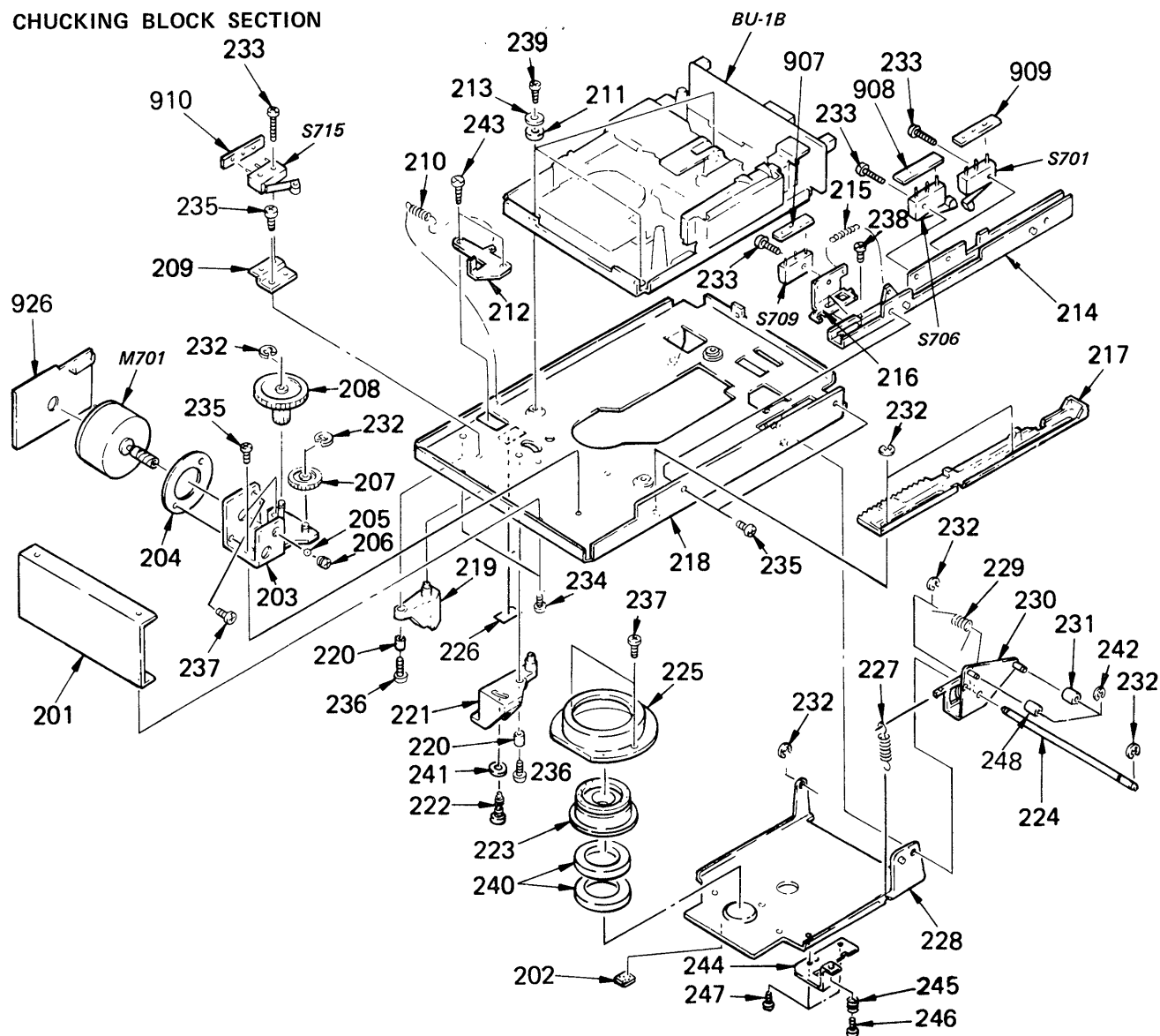
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	*4-915-189-01	PLATE (LEFT), SIDE		125	3-701-993-00	SPACER, TERMINAL	
102	4-915-202-01	CUSHION, RUBBER		126	7-682-161-01	SCREW +BVTT 4X8 (S)	
103	4-915-149-01	SCREW, SIDE PLATE		127	4-870-539-00	PLATE, GROUND	
104	*3-703-353-07	SUPPORT, PC BOARD		129	*4-915-892-01	BRACKET, TERMINAL	
106	*3-309-144-01	HEAT SINK		130	*4-915-889-01	GUIDE, CONNECTOR	
107	9-911-843-XX	CUSHION		131	*4-915-888-01	HOLDER, DIGITAL SW	
108	2-236-956-00	SCREW, STEP		132	*4-907-980-01	FOOT	
109	*4-915-121-01	HOLDER (D), PC BOARD		133	7-682-147-09	SCREW +P 3X6	
110	*4-915-120-01	HOLDER (B), PC BOARD		134	*4-915-429-01	CUSHION (A), P	
111	*3-701-822-00	HOLDER, WIRE		135	4-314-320-00	HOLDER, WIRE	
112	*4-915-171-01	HOLDER (A), PC BOARD		914	*A-4644-302-A	MOUNTED PCB, DIGITAL SW	
113	*4-915-860-41	PLATE, JACK		919	*1-619-617-11	PC BOARD, FILTER	
114	*4-915-887-01	COVER, DIGITAL SW		920	*A-4646-398-A	MOUNTED PCB, PITCH CONTROL	
115	2-371-561-00	BUSHING (P), INSULATING		921	*A-4651-089-A	MOUNTED PCB, MAIN	
116	3-703-037-00	INSULATOR, T0-220		922	*A-4652-028-A	MOUNTED PCB, CONNECTOR	
117	*4-917-101-01	HEAT SINK (B)		931	Δ 1-556-563-11	CORD, POWER	
118	*3-703-244-00	BUSHING (2104), CORD		CNJ001	1-563-358-11	CONNECTOR, D SUB 15P	
119	*4-915-173-01	REINFORCEMENT		CNJ002	1-563-357-11	CONNECTOR, D SUB 9P	
120	7-682-547-09	SCREW +BVTT 3X6		CNJ003	1-563-359-11	CONNECTOR, D SUB 25P	
121	7-682-147-01	SCREW +BVTT 3X6 (S)		CNJ004	1-563-359-11	CONNECTOR, D SUB 25P	
122	7-682-548-09	SCREW +B 3X8		S1	Δ 1-553-575-21	SWITCH, SEESAW (POWER)	
123	*4-915-188-01	PLATE (RIGHT), SIDE		T1	Δ 1-449-103-11	TRANSFORMER, POWER	
124	3-706-165-00	SCREW					

(4) CHASSIS SECTION-2



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	X-4915-018-1	FOOT ASSY		160	*4-915-190-01	PLATE (RIGHT), SIDE, MAIN	
152	7-682-669-09	SCREW (PSW) (4X35), TRANSPORT		161	*4-915-208-01	REINFORCEMENT, MAIN SIDE PLATE	
153	*4-915-124-01	BOLT, TRANSPORT LOCK		162	*4-915-857-01	BRACKET, ILLUMINATION	
154	*4-915-201-01	CHASSIS		163	*4-915-172-01	PLATE, REAR	
155	*4-915-191-01	PLATE (LEFT), SIDE, MAIN		164	7-682-547-09	SCREW +BVTT 3X6	
156	4-885-843-02	LABEL, CAUTION, LASER		165	7-682-561-09	SCREW +B 4X8	
157	*4-915-192-01	PLATE, UPPER, MAIN		166	7-685-881-09	SCREW +BVTT 4X8 (S)	
158	*4-915-027-01	BRACKET (REAR), MD		167	3-701-748-00	CLAMP	
159	*4-915-196-01	PLATE, BACK		932	1-807-494-11	ILLUMINATOR, LED	

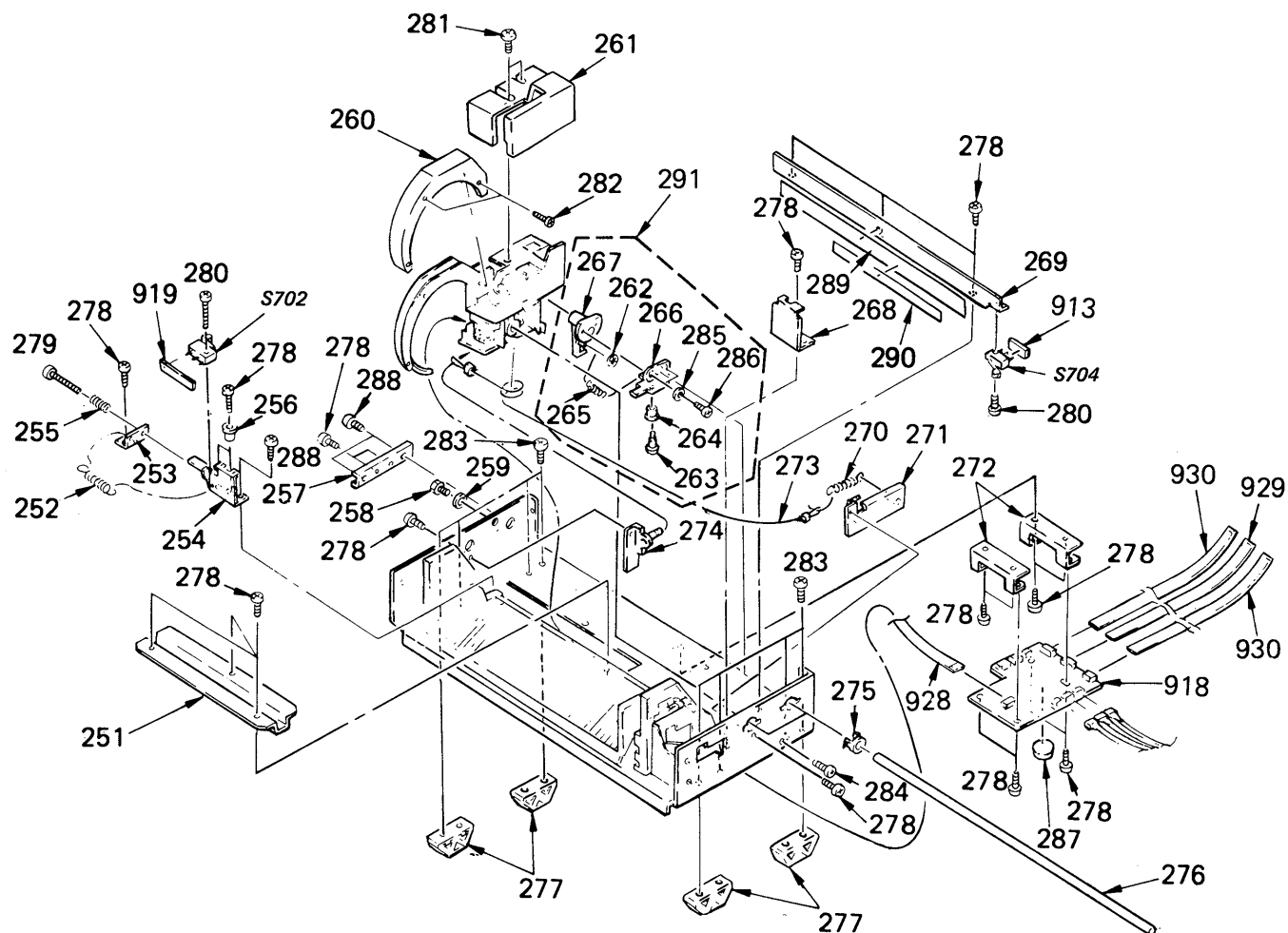
(5) CHUCKING BLOCK SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	*4-915-028-01	BRACKET (FRONT), MD		230	*X-4915-004-3	LEVER ASSY, CHUCKING	
202	4-915-206-01	CUSHION, C ARM		231	*4-915-017-01	ROLLER, CHUCKING	
203	*X-4915-021-1	BRACKET ASSY, C MOTOR		232	7-624-106-04	STOP RING 3.0, TYPE -E	
204	*4-915-104-01	WASHER, MOTOR		233	7-621-257-55	SCREW +P 2.3X8	
205	7-671-113-02	STEEL BALL 3.0		234	7-682-547-09	SCREW +B 3X6	
206	3-489-073-00	SCREW, THRUST		235	7-682-144-09	SCREW +P 3X3	
207	4-915-020-01	GEAR (A), C		236	7-682-548-09	SCREW +B 3X8	
208	4-915-021-01	GEAR (B), C		237	7-621-259-10	SCREW +P 2.6X3	
209	*4-915-032-01	BRACKET, SW, TRANSPORT LOCK		238	7-621-759-35	+PSW, 2.6X5	
210	4-915-133-01	SPRING, TENSION		239	7-682-146-09	SCREW +P 3X5	
211	4-915-203-01	CUSHION, RUBBER		240	1-452-340-11	MAGNET	
212	*4-915-035-01	LEVER, JOINT		241	7-688-003-02	W 3, SMALL	
213	4-301-647-00	WASHER, SPECIAL		242	7-624-104-04	STOP RING 2.0, TYPE -E	
214	*4-915-154-01	BRACKET, C SW		243	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
215	4-908-555-01	SPRING, TENSION (C ARM)		244	*4-915-210-01	PLATE, ADJUSTMENT, ARM	
216	*4-915-029-01	BRACKET, SW, MID		245	4-836-836-00	SPRING, COMPRESSION	
217	4-915-153-01	CAM, ARM		246	7-682-153-09	SCREW +P 3X20	
218	*X-4915-023-1	CHASSIS ASSY, MECHANICAL		247	7-621-284-00	SCREW +P 2.6X4	
219	*4-915-034-01	LEVER (B), CARRIER LOCK		248	4-904-652-01	BEARING (NO FLANGE), BALL	
220	4-915-205-01	COLLAR, FULCRUM		907	*1-618-447-11	PC BOARD, CHUCKING MID	
221	*4-915-033-01	LEVER (A), CARRIER LOCK		908	*1-618-446-11	PC BOARD, CHUCKING ON	
222	4-915-026-01	SCREW, TRANSPORT ARM		909	*1-618-445-11	PC BOARD, CHUCKING OFF	
223	X-4915-025-1	PULLEY ASSY, PRESS		910	*A-4644-298-A	MOUNTED PCB, MOTOR OFF	
224	*4-915-013-01	SHAFT, FULCRUM, C ARM		926	*A-4656-015-A	MOUNTED PCB, CHUCKING MOTOR	
225	*4-915-023-01	STOPPER, PULLEY		M701	A-4608-329-A	MOTOR (C) ASSY, CHUCKING	
226	9-911-838-XX	PACKING, KNOB		S701	1-570-561-11	SWITCH, MICRO (CHUCKING OFF)	
227	4-915-030-01	SPRING (C ARM), TENSION		S706	1-570-561-11	SWITCH, MICRO (CHUCKING ON)	
228	*X-4915-022-1	ARM ASSY, C		S709	1-570-561-11	SWITCH, MICRO (CHUCKING END)	
229	4-915-016-01	SPRING		S715	1-570-561-11	SWITCH, MICRO (ARM MOTOR OFF)	

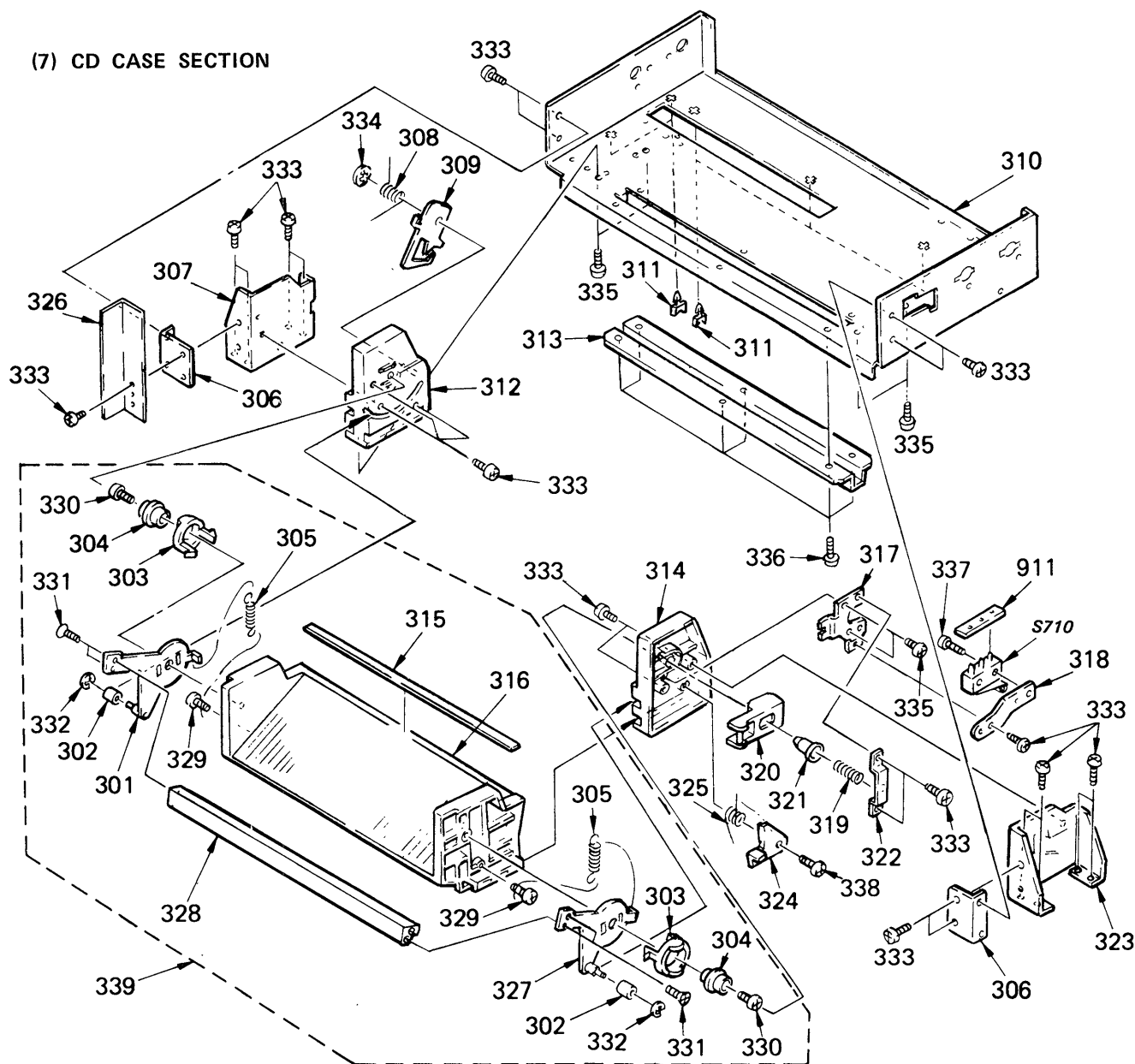
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(6) CARRIER GUIDE SECTION



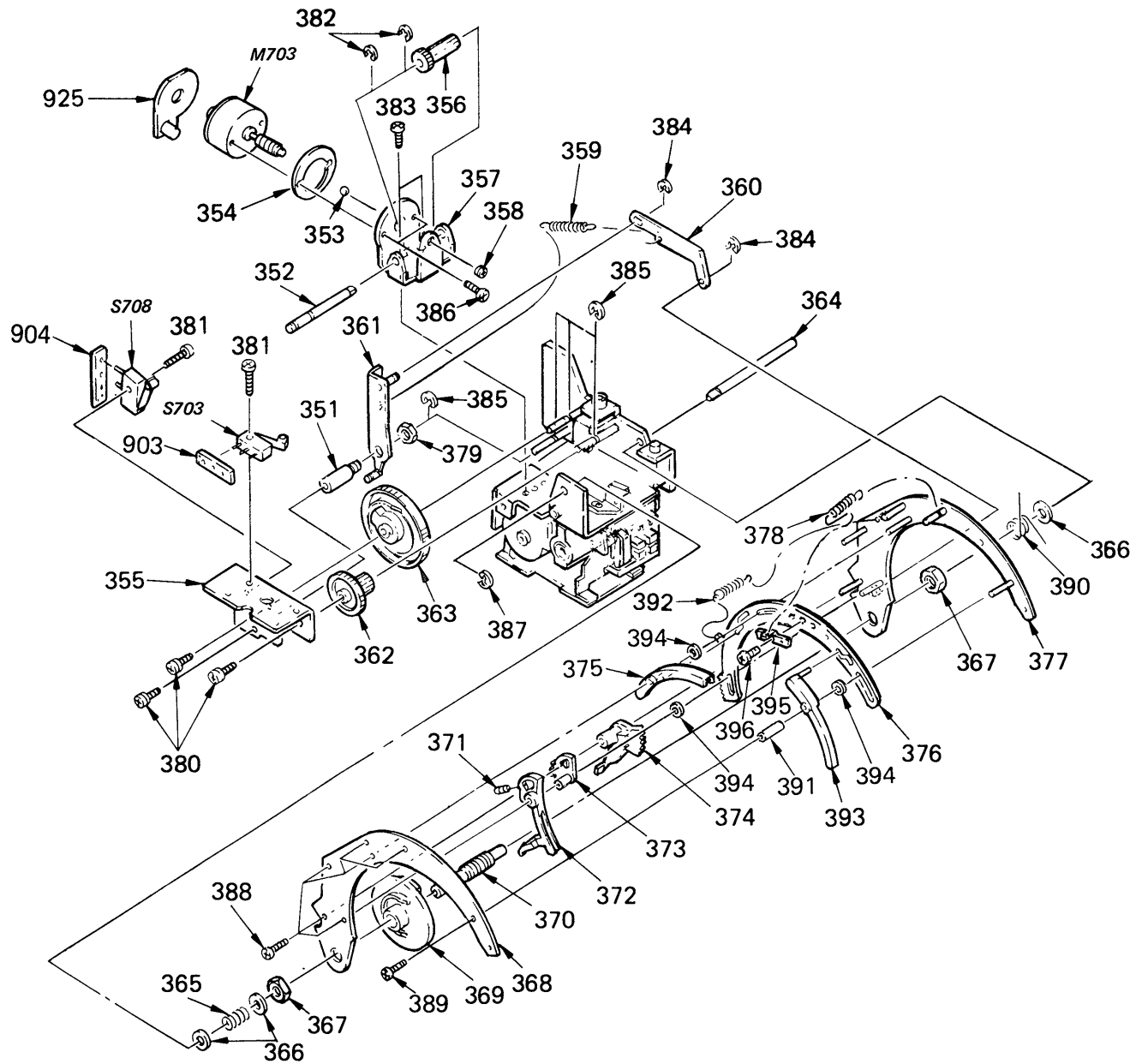
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
251	*4-915-176-01	GUIDE, CABLE		276	*4-915-119-01	SHAFT	
252	4-915-133-01	SPRING, TENSION		277	*4-915-132-21	INSULATOR	
253	*4-915-144-01	PLATE, ADJUSTMENT, C		278	7-682-547-09	SCREW +B 3X6	
254	*4-915-177-01	BOARD (L), DETECTION, CARRIER		279	7-683-307-07	BOLT, HEXAGON 3X14	
255	4-836-836-00	SPRING, COMPRESSION		280	7-621-257-55	SCREW +P 2.3X8	
256	4-915-145-01	COLLAR, C DETECTION PLATE		281	7-682-545-09	SCREW +B 3X4	
257	*4-915-117-01	RETAINER, SHAFT		282	7-621-772-00	SCREW +B 2X3	
258	4-915-116-01	GUIDE, SCREW		283	7-682-561-09	SCREW +B 4X8	
259	4-901-681-00	SPACER (S)		284	7-682-144-09	SCREW +P 3X3	
260	4-915-166-01	COVER, ARM		285	7-623-922-11	WASHER 2.0, NYLONE	
261	*4-915-165-01	COVER, CARRIER		286	7-685-133-19	SCREW +BTP2.6 x 6	
262	7-624-190-81	STOP RING 2, TYPE-CS		287	*4-907-980-01	FOOT	
263	3-489-077-21	SCREW, MOTOR STOPPER		288	7-682-647-09	SCREW +PSW 3X6	
264	4-915-101-01	ROLLER		289	4-915-212-01	SHEET, LOCK	
265	3-509-123-11	SPRING, TENSION		290	*4-915-156-01	LABEL, CD CASE	
266	*4-915-102-01	HOLDER, MEMORY		291	A-4675-149-A	MEMORY ASSY, MECHANICAL	262-267, 285, 286
267	4-915-115-01	MEMORY, MECHANICAL		912	*A-4644-300-A	MOUNTED PCB, LIMIT SW	
268	*4-915-147-01	PLATE (R), DETECTION, CARRIER		913	*1-618-442-11	PC BOARD, END SW	
269	*4-915-175-01	PLATE, LOCK		918	*A-4646-294-A	MOUNTED PCB, RELAY	
270	3-437-331-01	SPRING, TENSION		928	1-559-897-11	CORD, CONNECTION (14 CORE, FLAT TYPE)	
271	*X-4915-016-1	GUIDE (RIGHT) ASSY, ROPE		929	1-558-484-11	WIRE, PVC (FLAT TYPE) (14 CORE)	
272	*4-915-146-01	BRACKET, MIDWAY PC BOARD		930	1-558-485-11	WIRE, PVC (FLAT TYPE) (14 CORE)	
273	4-915-131-01	ROPE		S702	1-570-561-11	SWITCH, MICRO (LIMIT DETECT)	
274	*X-4915-017-1	GUIDE (LEFT) ASSY, ROPE		S704	1-570-561-11	SWITCH, MICRO (END DETECT)	
275	*4-915-118-01	HOLDER, SHAFT					

(7) CD CASE SECTION



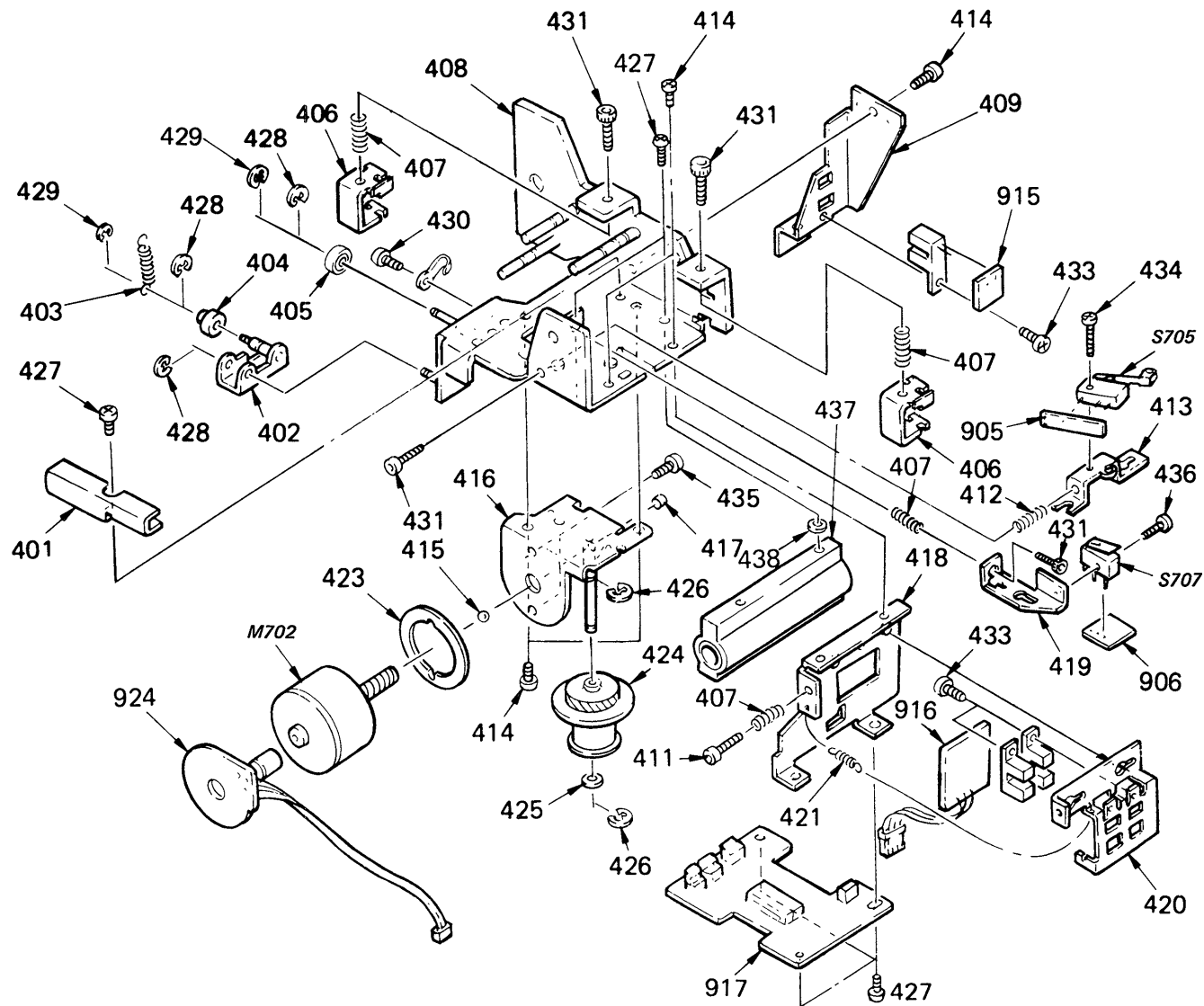
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
301	*X-4915-002-1	ARM (LEFT) ASSY, LOCK HANDLE		321	*4-915-135-01	SHAFT, CENTER RING	
302	4-915-008-01	COLLAR, LOCK HANDLE		322	*4-915-142-01	RETAINER, SPRING	
303	4-915-002-01	RING, GUIDE		323	*4-915-179-01	REINFORCEMENT (RIGHT), CASEGUIDE	
304	*4-915-003-01	COLLAR, CENTER RING		324	*4-915-140-01	LEVER, DETECTION, DISC	
305	4-915-001-01	SPRING (LOCK HANDLE), TENSION		325	4-915-141-01	SPRING	
306	*4-915-148-01	REINFORCEMENT, CHASSIS		326	*4-915-213-01	COVER, REED	
307	*4-915-178-01	REINFORCEMENT (LEFT), CASE GUIDE		327	*X-4915-001-1	ARM (RIGHT) ASSY, LOCK HANDLE	
308	4-915-137-01	SPRING		328	*4-915-155-01	JOINT, HANDLE	
309	4-915-138-01	CAM, LOCK		329	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
310	*4-915-197-01	CHASSIS, MAIN		330	7-685-134-19	SCREW +P 2.6X8 TYPE2 SLIT	
311	4-314-320-00	HOLDER, WIRE		331	7-621-592-00	SCREW +K 2.6X6	
312	*4-915-194-01	GUIDE (LEFT), CASE		332	7-624-104-04	STOP RING 2.0, TYPE -E	
313	*4-915-180-01	REINFORCEMENT, MAIN CHASSIS		333	7-682-547-09	SCREW +B 3X6	
314	*4-915-193-01	GUIDE (RIGHT), CASE		334	7-624-190-11	STOP RING 3, TYPE-CS	
315	*4-915-156-01	LABEL, CD CASE		335	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
316	*4-915-195-01	CASE, CD		336	7-682-144-09	SCREW +P 3X3	
317	*4-915-136-01	HOLDER, CENTER RING		337	7-621-257-55	SCREW +P 2.3X8	
318	*4-915-139-01	BRACKET, CASE SW		338	7-685-645-79	SCREW +BVTP 3X6 TYPE2 SLIT	
319	4-915-143-01	SPRING(CENTERING), COMPRESSION		339	A-4675-151-A	CASE ASSY, CD	
320	*4-915-134-01	LEVER, CENTER RING		911	*1-618-441-11	PC BOARD, TRAY SW	
				S710	1-570-561-11	SWITCH, MICRO (DISC HOLDER DETECT)	

(8) ARM BLOCK SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
351	*4-915-105-01	BEARING, LOADING LEVER		377	X-4915-020-1	ARM ASSY, HOLDER	
352	*4-915-094-01	SHAFT, JOINT GEAR		378	3-669-979-00	SPRING, TENSION	
353	7-671-113-02	STEEL BALL 3.0		379	3-703-078-01	NUT	
354	*4-915-104-01	WASHER, MOTOR		380	7-628-254-10	SCREW +PS 2.6X6	
355	*4-915-091-01	CHASSIS (B), CARRIER		381	7-621-257-55	SCREW +P 2.3X8	
356	4-915-093-01	GEAR, JOINT		382	7-624-108-04	STOP RING 4.0, TYPE -E	
357	*4-915-092-01	HOLDER (B), MOTOR		383	7-682-144-09	SCREW +P 3X3	
358	3-489-073-00	SCREW, THRUST		384	7-624-104-04	STOP RING 2.0, TYPE -E	
359	4-915-226-01	SPRING (LOADING), TENSION		385	7-624-105-04	STOP RING 2.3, TYPE -E	
360	4-915-089-01	JOINT		386	7-621-259-10	SCREW +P 2.6X3	
361	*X-4915-011-1	LEVER ASSY, LOADING		387	7-624-102-04	STOP RING 1.5, TYPE -E	
362	4-915-100-01	GEAR, MIDWAY		388	7-621-772-20	SCREW +B 2X5	
363	4-915-164-01	GEAR, LOADING		389	7-621-283-70	SCREW +P 2X12	
364	*4-915-088-01	SHAFT, ARM		390	4-915-106-01	SPRING	
365	3-568-802-00	SPRING, COMPRESSION		391	4-915-108-01	COLLAR, HOLDER LEVER	
366	7-623-925-01	WASHER 4.0, NYLONE		392	3-642-512-01	SPRING, TENSION	
367	4-915-110-01	NUT		393	X-4915-028-1	LEVER (B) ASSY, HOLDER	
368	*4-915-161-01	ARM, HOLDER		394	3-701-439-01	WASHER, PLASTIC, 3	
369	4-915-167-01	GEAR, CAM		395	4-915-223-01	HOOK, SPRING	
370	*4-915-087-01	BEARING, ARM		396	7-621-772-00	SCREW +B 2X3	
371	3-534-512-01	SPRING, COMPRESSION		903	*1-618-425-11	PC BOARD, UP SW	
372	4-915-085-01	LEVER, HOLDING		904	*1-618-427-11	PC BOARD, RLS SW	
373	4-915-086-01	GEAR, HOLDING		925	*1-618-428-11	PC BOARD, ARM MOTOR	
374	4-915-163-01	LEVER, HOLDER CAM		M703	A-4608-327-A	MOTOR (B) ASSY, ARM	
375	X-4915-012-1	LEVER ASSY, HOLDER		S703	1-570-561-11	SWITCH, MICRO (ARM UP)	
376	4-915-162-01	CAM, HOLDER		S708	1-570-561-11	SWITCH, MICRO (RLS)	

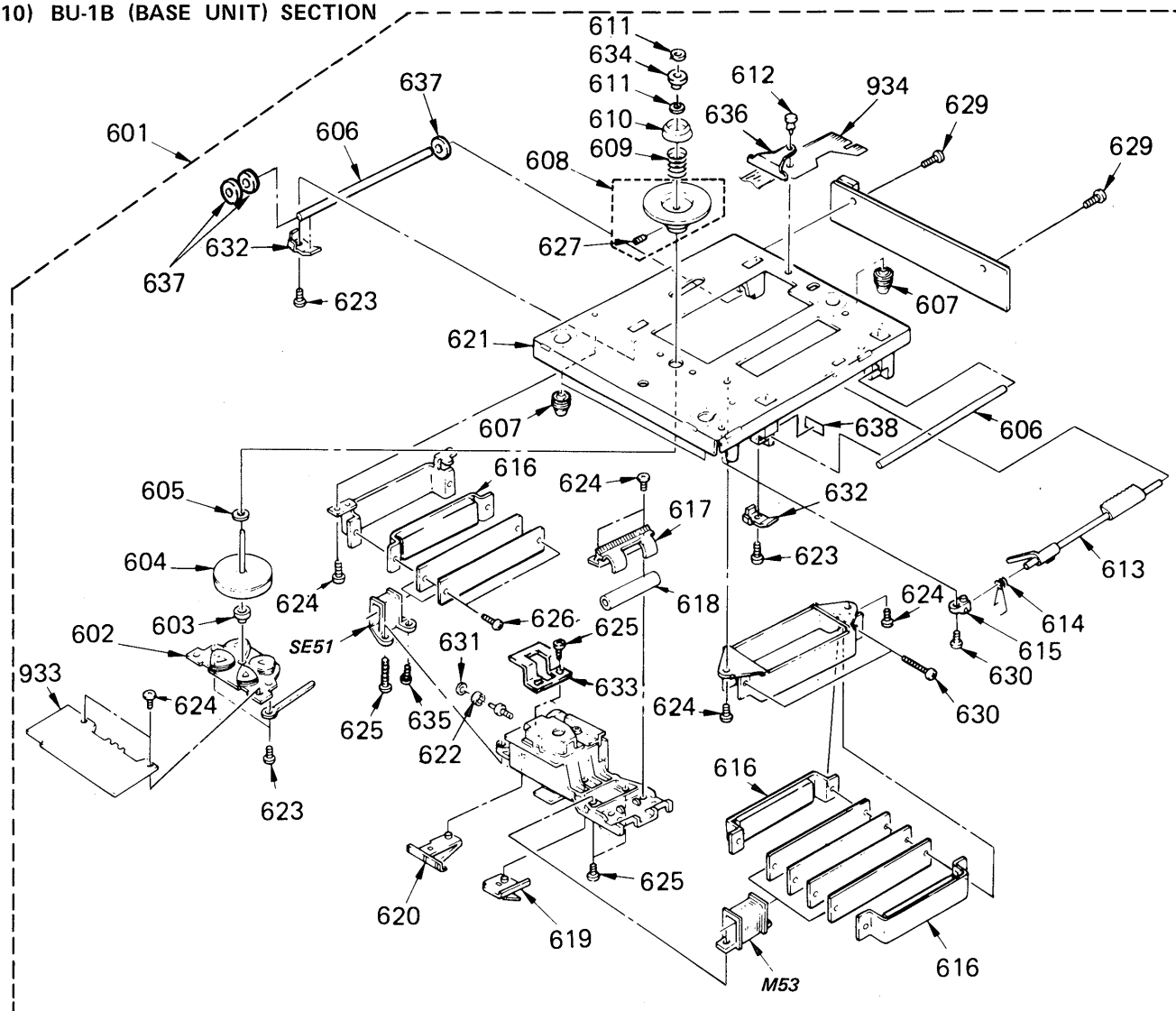
(9) CARRIER BLOCK SECTION



No.	Part No.	Description	Remarks
401	*4-915-107-01	CLAMP	
402	*X-4915-015-1	GUIDE ASSY, CARRIER	
403	3-515-170-00	SPRING, TENSION	
404	4-915-101-01	ROLLER	
405	4-908-208-01	BEARING (NO-FLANGE), BALL	
406	4-915-099-01	STOPPER, MECHANICAL	
407	4-836-836-00	SPRING, COMPRESSION	
408	*X-4915-019-1	CHASSIS (A) ASSY, CARRIER	
409	*4-915-096-01	HOLDER (B), SENSOR	
411	7-683-306-07	BOLT, HEXAGON 3X12	
412	3-544-222-01	SPRING, COMPRESSION	
413	*4-915-098-01	PLATE (C), ADJUSTMENT, SWITCH	
414	7-682-144-09	SCREW +P 3X3	
415	7-671-156-01	BALL, STAINLESS	
416	*X-4915-013-1	HOLDER (A) ASSY, MOTOR	
417	3-489-073-00	SCREW, THRUST	
418	*X-4915-014-1	BRACKET ASSY, SENSOR HOLDER	
419	*4-915-097-01	PLATE (B), ADJUSTMENT, SWITCH	
420	*4-915-095-01	HOLDER (A), SENSOR	
421	3-639-392-01	SPRING, TENSION	
423	*4-915-104-01	WASHER, MOTOR	
424	4-915-090-01	PULLEY, DRIVING	

No.	Part No.	Description	Remarks
425	3-701-441-21	WASHER	
426	7-624-106-04	STOP RING 3.0, TYPE -E	
427	7-682-547-09	SCREW +BVT 3X6 (S)	
428	7-624-105-04	STOP RING 2.3, TYPE -E	
429	7-624-102-04	STOP RING 1.5, TYPE -E	
430	7-682-646-09	SCREW +PS 3X5	
431	7-683-308-07	BOLT, HEXAGON 3X16	
433	7-685-863-09	SCREW +BVT 2.6X8 (S)	
434	7-621-257-55	SCREW +P 2.3X8	
435	7-621-259-10	SCREW +P 2.6X3	
436	7-621-255-50	SCREW +P 2X8	
437	*4-915-244-01	BEARING, CARRIER	
438	3-701-439-01	WASHER, PLASTIC, 3	
905	*1-618-426-11	PC BOARD, HOLD SW	
906	*1-618-424-11	PC BOARD, DISC SW	
915	*1-618-423-11	PC BOARD, MECH MEMORY	
916	*1-618-422-11	PC BOARD, DOUBLE SENSOR	
917	*1-618-430-11	PC BOARD, CARRIER	
924	*1-618-429-11	PC BOARD, CARRIER MOTOR	
M702	A-4608-325-A	MOTOR (A) ASSY, CARRIER	
S705	1-570-561-11	SWITCH, MICRO (DISC HOLD)	
S707	1-570-028-11	SWITCH, MICRO (DISC DETECT)	

(10) BU-1B (BASE UNIT) SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
601	A X-4915-031-1	BASE UNIT ASSY, BU-1B		621	*X-4908-214-1	BASE (OUTSERT) ASSY	
602	A-4675-068-A	BRACKET ASSY, MOTOR		622	4-908-208-01	BEARING (NO-FLANGE), BALL	
603	2-622-105-01	RETAINER, THRUST		623	7-685-134-19	SCREW +P 2.6X8 TYPE2 SLIT	
604	A-4675-136-A	ROTOR ASSY		624	7-621-775-10	SCREW +B 2.6X4	
605	3-701-439-21	WASHER		625	7-621-775-20	SCREW +B 2.6X5	
606	4-908-201-03	SHAFT, SLIDE		626	7-621-770-XX	SCREW +BVTT 2.6X8 (S)	
607	4-908-593-01	INSULATOR		627	7-621-734-09	SET-SCT, HEX. 2.6X3	
608	X-4908-202-1	PULLEY ASSY, DISK		628	7-688-002-01	W 2.6, SMALL	
609	4-908-213-01	SPRING, COMPRESSION		629	7-685-864-01	SCREW +BVTT 2.6X10 (S)	
610	4-915-217-01	CAP, CENTERING		630	7-621-260-00	SCREW +P 2.6X16	
611	3-558-708-21	WASHER, STOPPER		631	7-624-105-04	STOP RING 2.3, TYPE -E	
612	3-531-576-01	RIVET		632	4-908-245-01	RETAINER (C), SHAFT, SLIDE	
613	4-908-227-01	LEVER, LOCK		633	*4-915-036-01	RETAINER, SLED	
614	4-908-230-01	SPRING		634	4-915-037-01	CAP, C	
615	4-908-220-01	HOLDER, ROD		635	7-621-260-05	SCREW +BVTT 2.6X16 (S)	
616	A-4675-110-A	MAGNET ASSY, LINEAR		637	*4-908-269-01	CUSHION, SLIDE	
617	4-908-224-01	HOLDER, BEARING		638	4-915-211-01	CUSHION	
618	4-908-221-01	BEARING		933	*A-4656-008-A	MOUNTED PCB, BSL MOTOR	
619	4-908-225-01	RETAINER (A), LEAD		934	A-4646-215-A	MOUNTED PCB, FLEXIBLE	
620	4-908-219-01	RETAINER (B), LEAD		M53	1-422-197-14	COIL (DRIVE)	
				SE51	1-422-198-11	COIL (SENSOR)	

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

REVISED

SECTION 6

**SEE ADDITIONAL
INFORMATION****ELECTRICAL PARTS LIST****NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
901	*1-618-438-11	PC BOARD, CLOSE SW
902	*A-4644-290-A	MOUNTED PCB, DOOR LOCK
903	*1-618-425-11	PC BOARD, UP SW
904	*1-618-427-11	PC BOARD, RLS SW
905	*1-618-426-11	PC BOARD, HOLD SW
906	*1-618-424-11	PC BOARD, DISC SW
907	*1-618-447-11	PC BOARD, CHUCKING MID
908	*1-618-446-11	PC BOARD, CHUCKING ON
909	*1-618-445-11	PC BOARD, CHUCKING OFF
910	*A-4644-298-A	MOUNTED PCB, MOTOR OFF
911	*1-618-441-11	PC BOARD, TRAY SW
912	*A-4644-300-A	MOUNTED PCB, LIMIT SW
913	*1-618-442-11	PC BOARD, END SW
914	*A-4644-302-A	MOUNTED PCB, DIGITAL SW
915	*1-618-423-11	PC BOARD, MECH MEMORY
916	*1-618-422-11	PC BOARD, DOUBLE SENSOR
917	*1-618-430-11	PC BOARD, CARRIER
918	*A-4646-294-A	MOUNTED PCB, RELAY
919	*1-619-617-11	PC BOARD, FILTER
920	*A-4646-398-A	MOUNTED PCB, PITCH CONTROL
921	*A-4651-089-A	MOUNTED PCB, MAIN
922	*A-4652-028-A	MOUNTED PCB, CONNECTOR
923	*A-4655-028-A	MOUNTED PCB, LAMP (A)
924	*1-618-429-11	PC BOARD, CARRIER MOTOR
925	*1-618-428-11	PC BOARD, ARM MOTOR
926	*A-4656-015-A	MOUNTED PCB, CHUCKING MOTOR
927	1-517-072-00	LAMP HOLDER
928	1-559-897-11	CORD CONNECTION (14 CORE) (FLAT TYPE)
929	1-558-484-11	WIRE, PVC (FLAT TYPE) (14 CORE)
930	1-558-485-11	WIRE, PVC (FLAT TYPE) (14 CORE)
931	A-1-556-563-11	CORD, POWER
932	1-807-494-11	ILLUMINATOR, LED
933	*A-4656-008-A	MOUNTED PCB, BSL MOTOR
934	A-4646-215-A	MOUNTED PCB, FLEXIBLE
C51	1-135-008-00	TANTAL. CHIP 2.2MF 20% 6.3V
C001	1-126-048-11	ELECT 10MF 20% 50V
C002	1-126-048-11	ELECT 10MF 20% 50V
C003	1-162-282-31	CERAMIC 100PF 10% 50V
C004	1-162-282-31	CERAMIC 100PF 10% 50V
C005	1-126-048-11	ELECT 10MF 20% 50V
C006	1-126-048-11	ELECT 10MF 20% 50V
C007	1-126-048-11	ELECT 10MF 20% 50V
C008	1-126-048-11	ELECT 10MF 20% 50V
C009	1-126-048-11	ELECT 10MF 20% 50V
C010	1-162-282-31	CERAMIC 100PF 10% 50V
C011	1-162-282-31	CERAMIC 100PF 10% 50V

Ref.No.	Part No.	Description
C012	1-126-048-11	ELECT 10MF 20% 50V
C013	1-126-048-11	ELECT 10MF 20% 50V
C014	1-126-048-11	ELECT 10MF 20% 50V
C015	1-123-380-00	ELECT 1MF 20% 100V
C016	1-123-380-00	ELECT 1MF 20% 100V
C017	1-162-851-11	CERAMIC 0.1MF 20% 16V
C018	1-162-851-11	CERAMIC 0.1MF 20% 16V
C019	1-124-478-11	ELECT 100MF 20% 25V
C020	1-124-478-11	ELECT 100MF 20% 25V
C021	1-124-478-11	ELECT 100MF 20% 25V
C022	1-124-478-11	ELECT 100MF 20% 25V
C023	1-161-379-00	CERAMIC 0.01MF 20% 16V
C151	1-161-375-00	CERAMIC 0.0022MF 20% 16V
C152	1-161-375-00	CERAMIC 0.0022MF 20% 16V
C153	1-161-494-00	CERAMIC 0.022MF 30% 25V
C154	1-161-494-00	CERAMIC 0.022MF 30% 25V
C301	1-123-332-00	ELECT 47MF 20% 25V
C303	1-136-233-11	FILM 0.0047MF 5% 100V
C304	1-123-332-00	ELECT 47MF 20% 25V
C305	1-123-332-00	ELECT 47MF 20% 25V
C307	1-123-332-00	ELECT 47MF 20% 25V
C308	1-123-332-00	ELECT 47MF 20% 25V
C309	1-104-233-00	POLYSTYRENE 220PF 5% 125V
C310	1-104-228-00	POLYSTYRENE 0.0015MF 5% 125V
C311	1-123-333-00	ELECT 100MF 20% 25V
C313	1-123-330-00	ELECT 22MF 20% 16V
C314	1-101-884-00	CERAMIC 56PF 5% 50V
C315	1-161-377-00	CERAMIC 0.0047MF 20% 16V
C316	1-102-959-00	CERAMIC 22PF 5% 50V
C318	1-123-333-00	ELECT 100MF 20% 25V
C319	1-123-332-00	ELECT 47MF 20% 25V
C322	1-123-330-00	ELECT 22MF 20% 16V
C323	1-123-330-00	ELECT 22MF 20% 16V
C325	1-123-333-00	ELECT 100MF 20% 25V
C401	1-123-332-00	ELECT 47MF 20% 25V
C403	1-136-233-11	FILM 0.0047MF 5% 100V
C409	1-104-233-00	POLYSTYRENE 220PF 5% 125V
C410	1-104-228-00	POLYSTYRENE 0.0015MF 5% 125V
C411	1-123-333-00	ELECT 100MF 20% 25V
C451	1-130-495-00	MYLAR 0.1MF 5% 50V
C452	1-124-767-00	ELECT 2.2MF 20% 50V
C453	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C454	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C455	1-102-965-00	CERAMIC 39PF 5% 50V
C456	1-102-976-00	CERAMIC 180PF 5% 50V

SEE ADDITIONAL
SEE INFORMATION

CDK-3000P II

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C457	1-102-973-00	CERAMIC	100PF	5%	50V	C620	1-161-494-00	CERAMIC	0.022MF		25V
C458	1-102-951-00	CERAMIC	15PF	5%	50V	C621	1-161-494-00	CERAMIC	0.022MF		25V
C459	1-161-379-00	CERAMIC	0.01MF	20%	16V	C630	1-124-443-00	ELECT	100MF	20%	10V
C460	1-123-356-00	ELECT	10MF	20%	16V	C631	1-124-443-00	ELECT	100MF	20%	10V
C462	1-102-964-00	CERAMIC	36PF	5%	50V	C635	1-123-356-00	ELECT	10MF	20%	16V
C463	1-162-294-31	CERAMIC	0.001MF	10%	50V	C702	1-130-487-00	MYLAR	0.022MF	5%	50V
C464	1-162-294-31	CERAMIC	0.001MF	10%	50V	C704	1-123-333-00	ELECT	100MF	20%	16V
C465	1-123-332-00	ELECT	47MF	20%	25V	C713	1-124-471-00	ELECT	1000MF	20%	6.3V
C501	1-162-290-31	CERAMIC	470PF	10%	50V	C723	1-102-973-00	CERAMIC	100PF	5%	50V
C502	1-130-499-00	MYLAR	0.22MF	5%	50V	C724	1-102-973-00	CERAMIC	100PF	5%	50V
C503	1-161-375-00	CERAMIC	0.0022MF	30%	16V	C725	1-123-356-00	ELECT	10MF	20%	16V
C504	1-102-980-00	CERAMIC	270PF	5%	50V	C729	1-162-294-31	CERAMIC	0.001MF	10%	50V
C505	1-161-375-00	CERAMIC	0.0022MF	30%	16V	C735	1-124-557-11	ELECT	1000MF	20%	25V
C506	1-130-499-00	MYLAR	0.22MF	5%	50V	C739	1-124-471-00	ELECT	1000MF	20%	6.3V
C507	1-130-479-00	MYLAR	0.0047MF	5%	50V	C740	1-124-557-11	ELECT	1000MF	20%	25V
C508	1-130-487-00	MYLAR	0.022MF	5%	50V	C741	1-162-851-11	CERAMIC	0.1MF	20%	16V
C509	1-123-318-00	ELECT	33MF	20%	16V	C743	1-124-557-11	ELECT	1000MF	20%	25V
C510	1-130-495-00	MYLAR	0.1MF	5%	50V	C744	1-162-286-31	CERAMIC	220PF	10%	50V
C511	1-136-174-00	FILM	0.56MF	5%	50V	C745	1-162-286-31	CERAMIC	220PF	10%	50V
C512	1-130-475-00	MYLAR	0.0022MF	5%	50V	C746	1-162-286-31	CERAMIC	220PF	10%	50V
C513	1-130-487-00	MYLAR	0.022MF	5%	50V	C747	1-124-963-11	ELECT	33MF	20%	10V
C514	1-130-495-00	MYLAR	0.1MF	5%	50V	C748	1-124-443-00	ELECT	100MF	20%	10V
C515	1-123-333-00	ELECT	100MF	20%	16V	C752	1-162-851-11	CERAMIC	0.1MF	20%	16V
C516	1-123-333-00	ELECT	100MF	20%	16V	C753	1-162-851-11	CERAMIC	0.1MF	20%	16V
C517	1-130-499-00	MYLAR	0.22MF	5%	50V	C754	1-162-851-11	CERAMIC	0.1MF	20%	16V
C518	1-130-491-00	MYLAR	0.047MF	5%	50V	C755	1-162-851-11	CERAMIC	0.1MF	20%	16V
C519	1-162-294-31	CERAMIC	0.001MF	10%	50V	C770	1-123-356-00	ELECT	10MF	20%	16V
C520	1-130-489-00	MYLAR	0.033MF	5%	50V	C771	1-130-495-00	MYLAR	0.1MF	5%	50V
C521	1-162-294-31	CERAMIC	0.001MF	10%	50V	C778	1-124-186-00	ELECT	10MF	20%	50V
C522	1-130-475-00	MYLAR	0.0022MF	5%	50V	C780	1-124-186-00	ELECT	10MF	20%	50V
C523	1-123-333-00	ELECT	100MF	20%	16V	C781	1-124-186-00	ELECT	10MF	20%	50V
C524	1-123-333-00	ELECT	100MF	20%	16V	C801	1-161-772-11	CERAMIC	0.1MF	10%	25V
C525	1-136-173-00	FILM	0.47MF	5%	50V	C802	1-124-963-11	ELECT	33MF	20%	16V
C526	1-131-365-00	TANTALUM	10MF	10%	16V	C803	1-162-219-31	CERAMIC	68PF	5%	50V
C528	1-136-173-00	FILM	0.47MF	5%	50V	C804	1-124-963-11	ELECT	33MF	20%	16V
C529	1-130-483-00	MYLAR	0.01MF	5%	50V	C805	1-161-772-11	CERAMIC	0.1MF	10%	25V
C534	1-123-306-00	ELECT	47MF	20%	10V	C806	1-124-963-11	ELECT	33MF	20%	16V
C535	1-123-356-00	ELECT	10MF	20%	16V	C807	1-124-963-11	ELECT	33MF	20%	16V
C536	1-126-048-11	ELECT	10MF	20%	50V	C808	1-124-963-11	ELECT	33MF	20%	16V
C601	1-162-290-31	CERAMIC	470PF	10%	50V	C809	1-124-963-11	ELECT	33MF	20%	16V
C602	1-130-499-00	MYLAR	0.22MF	5%	50V	C810	1-124-963-11	ELECT	33MF	20%	16V
C603	1-130-495-00	MYLAR	0.1MF	5%	50V	C811	1-124-963-11	ELECT	33MF	20%	16V
C604	1-130-481-00	MYLAR	0.0068MF	5%	50V	C812	1-162-205-31	CERAMIC	18PF	5%	50V
C605	1-130-495-00	MYLAR	0.1MF	5%	50V	C813	1-136-171-00	FILM	0.33MF	5%	50V
C606	1-124-499-11	ELECT	1MF	20%	50V	C814	1-136-159-00	FILM	0.033MF	5%	50V
C607	1-162-286-31	CERAMIC	220PF	10%	50V	C815	1-162-293-31	CERAMIC	820PF	10%	50V
C608	1-102-963-00	CERAMIC	33PF	5%	50V	C816	1-162-217-31	CERAMIC	56PF	5%	50V
C609	1-130-483-00	MYLAR	0.01MF	5%	50V	C817	1-123-875-11	ELECT	10MF	20%	50V
C610	1-123-356-00	ELECT	10MF	20%	16V	C818	1-124-963-11	ELECT	33MF	20%	16V
C611	1-124-499-11	ELECT	1MF	20%	50V	C819	1-124-963-11	ELECT	33MF	20%	16V
C613	1-161-375-00	CERAMIC	0.0022MF	30%	16V	C835	1-161-379-00	CERAMIC	0.01MF	30%	16V
C614	1-161-375-00	CERAMIC	0.0022MF	30%	16V	C836	1-161-379-00	CERAMIC	0.01MF	30%	16V
C615	1-102-964-00	CERAMIC	36PF	5%	50V	C837	1-161-379-00	CERAMIC	0.01MF	30%	16V
C616	1-102-976-00	CERAMIC	180PF	5%	50V	C901	1-124-360-00	ELECT	1000MF	20%	16V
C617	1-102-965-00	CERAMIC	39PF	5%	50V	C903	1-124-966-11	ELECT	10000MF	20%	25V
C618	1-161-379-00	CERAMIC	0.01MF	20%	16V	C904	1-124-713-51	ELECT	470MF	20%	35V
C619	1-124-471-00	ELECT	1000MF	20%	6.3V	C905	1-123-335-00	ELECT	330MF	20%	25V

SEE ADDITIONAL
SEE INFORMATION

Ref.No.	Part No.	Description			
C907	1-124-965-11	ELECT	1000MF	20%	16V
C908	1-124-360-00	ELECT	1000MF	20%	16V
C914	1-124-360-00	ELECT	1000MF	20%	16V
C917	1-124-360-00	ELECT	1000MF	20%	16V
C920	1-123-379-00	ELECT	0.47MF	20%	50V
C921	1-124-443-00	ELECT	100MF	20%	10V
C951	1-124-360-00	ELECT	1000MF	20%	16V
C953	1-124-966-11	ELECT	10000MF	20%	25V
C954	1-124-713-51	ELECT	470MF	20%	35V
C955	1-123-335-00	ELECT	330MF	20%	25V
C957	1-124-965-11	ELECT	10000MF	20%	16V
C958	1-124-360-00	ELECT	1000MF	20%	16V
C965	1-136-174-00	FILM	0.56MF	5%	50V
C975	△.1-161-937-00	CERAMIC	0.01MF		250V
C976	△.1-161-937-00	CERAMIC	0.01MF		250V
C977	△.1-161-742-00	CERAMIC	0.0022MF	20%	400V
C978	△.1-161-742-00	CERAMIC	0.0022MF	20%	400V
CB901	△.1-532-538-00	BREAKER, CIRCUIT			
CNJ001	1-563-358-11	CONNECTOR, D SUB 15P			
CNJ002	1-563-357-11	CONNECTOR, D SUB 9P			
CNJ003	1-563-359-11	CONNECTOR, D SUB 25P			
CNJ004	1-563-359-11	CONNECTOR, D SUB 25P			
CNJ251	1-563-347-11	JACK, LARGE TYPE			
CNP001*1-564-339-00		PIN, CONNECTOR 5P			
CNP002*1-564-340-00		PIN, CONNECTOR 6P			
CNP003*1-564-507-11		PLUG, CONNECTOR 4P			
CNP005*1-564-497-11		PIN, CONNECTOR 4P			
CNP006*1-564-501-11		PIN, CONNECTOR 8P			
CNP008*1-564-497-11		PIN, CONNECTOR 4P			
CNP009*1-564-500-11		PIN, CONNECTOR 7P			
CNP151*1-560-073-00		PIN, CONNECTOR			
CNP206*1-564-506-11		PLUG, CONNECTOR 3P			
CNP207*1-564-506-11		PLUG, CONNECTOR 3P			
CNP208*1-564-509-11		PLUG, CONNECTOR 6P			
CNP209*1-564-507-11		PLUG, CONNECTOR 4P			
CNP301*1-564-710-11		PIN, CONNECTOR (SMALL TYPE) 8P			
CNP302*1-564-707-21		PIN, CONNECTOR (SMALL TYPE) 5P			
CNP303*1-564-706-11		PIN, CONNECTOR (SMALL TYPE) 4P			
CNP304*1-564-507-31		PLUG, CONNECTOR 4P			
CNP305*1-564-704-11		PIN, CONNECTOR (SMALL TYPE) 2P			
CNP410*1-564-708-11		PIN, CONNECTOR (SMALL TYPE) 6P			
CNP411*1-564-706-11		PIN, CONNECTOR (SMALL TYPE) 4P			
CNP501*1-564-509-11		PLUG, CONNECTOR 6P			
CNP601*1-564-341-11		PIN, CONNECTOR 7P			
CNP611*1-564-338-00		PIN, CONNECTOR 4P			
CNP701	1-563-187-11	SOCKET, CONNECTOR 14P			
CNP702	1-563-187-11	SOCKET, CONNECTOR 14P			
CNP703	1-563-187-11	SOCKET, CONNECTOR 14P			
CNP704	1-563-187-11	SOCKET, CONNECTOR 14P			
CNP705	1-563-187-11	SOCKET, CONNECTOR 14P			
CNP706	1-563-187-11	SOCKET, CONNECTOR 14P			
CNP707	1-563-188-11	SOCKET, CONNECTOR 14P			
CNP708	1-563-188-11	SOCKET, CONNECTOR 14P			
CNP710*1-560-071-00		PIN, CONNECTOR			
CNP711*1-560-076-00		PIN, CONNECTOR			
CNP712*1-564-508-11		PLUG, CONNECTOR 5P			

Ref.No.	Part No.	Description
CNP713*1-564-505-31		PLUG, CONNECTOR 2P
CNP714*1-564-505-21		PLUG, CONNECTOR 2P
CNP719*1-564-517-41		PLUG, CONNECTOR 2P
CNP720*1-564-517-31		PLUG, CONNECTOR 2P
CNP722*1-564-505-31		PLUG, CONNECTOR 2P
CNP723*1-564-505-11		PLUG, CONNECTOR 2P
CNP724*1-564-505-41		PLUG, CONNECTOR 2P
CNP725*1-564-521-11		PLUG, CONNECTOR 6P
CNP726*1-564-521-11		PLUG, CONNECTOR 6P
CNP727*1-564-523-11		PLUG, CONNECTOR 8P
CNP728*1-564-517-21		PLUG, CONNECTOR 2P
CNP729*1-564-704-11		PIN, CONNECTOR (SMALL TYPE) 2P
CNP730*1-564-705-21		PIN, CONNECTOR (SMALL TYPE) 3P
CNP734*1-564-518-11		PLUG, CONNECTOR 3P
CNP735*1-564-517-41		PLUG, CONNECTOR 2P
CNP736*1-564-706-11		PIN, CONNECTOR (SMALL TYPE) 4P
CNP737*1-564-705-11		PIN, CONNECTOR (SMALL TYPE) 3P
CNP738*1-564-704-31		PIN, CONNECTOR (SMALL TYPE) 2P
CNP739*1-564-704-41		PIN, CONNECTOR (SMALL TYPE) 2P
CNP740*1-564-705-31		PIN, CONNECTOR (SMALL TYPE) 3P
CNP741*1-564-704-11		PIN, CONNECTOR (SMALL TYPE) 2P
CNP751*1-564-511-41		PLUG, CONNECTOR 8P
CNP760*1-564-338-00		PIN, CONNECTOR 4P
CNP761*1-564-340-00		PIN, CONNECTOR 6P
CNP762*1-564-339-00		PIN, CONNECTOR 5P
CNP763*1-564-666-11		PIN, CONNECTOR 10P
CNP764*1-564-339-00		PIN, CONNECTOR 5P
CNP765*1-564-336-00		PIN, CONNECTOR 2P
CNP803*1-564-342-11		PIN, CONNECTOR 8P
CNP804*1-564-708-21		PIN, CONNECTOR (SMALL TYPE) 6P
CNP805*1-564-706-41		PIN, CONNECTOR (SMALL TYPE) 4P
CNP902*1-535-141-00		BASE POST 22MM (10MM PITCH) 4P
CNP951*1-535-116-00		TERMINAL
CNP952*1-535-116-00		TERMINAL
CNP961*1-564-338-00		PIN, CONNECTOR 4P
CNP962*1-564-338-00		PIN, CONNECTOR 4P
CNP990*1-564-339-00		PIN, CONNECTOR 5P
D51	8-719-901-33	DIODE 1SS133
D501	8-719-940-76	DIODE 1SS132
D504	8-719-940-76	DIODE 1SS132
D505	8-719-940-76	DIODE 1SS132
D506	8-719-951-13	DIODE HZ5CLL
D611	8-719-936-68	DIODE KV1260
D621	8-719-936-68	DIODE KV1260
D701	8-719-933-74	DIODE HZS12A2L
D702	8-719-990-32	DIODE HZ3B3
D703	8-719-933-70	DIODE HZS11C2L
D704	8-719-933-57	DIODE HZS9B2L
D705	8-719-200-77	DIODE 10E2N
D708	8-719-904-55	DIODE GL-5HD5
D711	8-719-904-55	DIODE GL-5HD5
D712	8-719-940-76	DIODE 1SS132
D713	8-719-904-55	DIODE GL-5HD5
D715	8-719-952-51	DIODE AA5525S
D753	8-719-933-74	DIODE HZS12A2L
D754	8-719-933-74	DIODE HZS12A2L
D755	8-719-933-57	DIODE HZS9B2L
D773	8-719-910-65	DIODE HZ6B2L

The components identified
by shading and mark △ are
critical for safety.
Replace only with part
number specified.

SEE ADDITIONAL
INFORMATION

Ref.No.	Part No.	Description
D801	8-719-100-30	DIODE RD5.1EB2
D901	8-719-200-31	DIODE 21DQ05
D902	8-719-200-31	DIODE 21DQ05
D903	8-719-200-31	DIODE 21DQ05
D904	8-719-200-77	DIODE 10E2N
D905	8-719-200-77	DIODE 10E2N
D906	8-719-200-31	DIODE 21DQ05
D951	8-719-200-31	DIODE 21DQ05
D952	8-719-200-31	DIODE 21DQ05
D953	8-719-200-31	DIODE 21DQ05
D956	8-719-200-31	DIODE 21DQ05
D991	8-719-933-74	DIODE HZS12A2L
D992	8-719-200-77	DIODE 10E2N
F951	△.1-532-686-00	LINK, IC
F952	△.1-532-686-00	LINK, IC
F953	△.1-532-686-00	LINK, IC
F954	△.1-532-686-00	LINK, IC
F955	△.1-532-686-00	LINK, IC
F956	△.1-532-686-00	LINK, IC
F957	△.1-532-686-00	LINK, IC
H151	8-719-800-18	DIODE THS103A-1
H152	8-719-800-18	DIODE THS103A-1
IC001	8-759-745-61	IC NJM4560D-D
IC002	8-759-745-61	IC NJM4560D-D
IC003	8-759-745-61	IC NJM4560D-D
IC004	8-759-745-61	IC NJM4560D-D
IC005	8-759-140-50	IC UPD4050BC
IC006	8-759-140-50	IC UPD4050BC
IC007	8-757-700-00	IC CX-770
IC008	8-759-202-27	IC TC74HC157P
IC009	8-759-202-27	IC TC74HC157P
IC151	8-759-145-58	IC NJM4558D
IC301	8-759-701-21	IC NJM5532D-D
IC302	8-759-910-75	IC LF353DP
IC303	8-752-015-20	IC CX20152
IC304	8-759-340-53	IC HD14053BP
IC402	8-759-910-75	IC LF353DP
IC451	8-759-990-82	IC TL082CP
IC501	8-752-010-80	IC CX20108
IC502	8-759-700-58	IC NJM4558D-FA
IC601	8-759-340-53	IC HD14053BP
IC603	8-759-912-52	IC CX23035
IC604	8-759-910-36	IC MSM5128-20GS
IC605	8-759-990-82	IC TL082CP
IC607	8-757-925-20	IC CX-7925B
IC608	8-759-601-02	IC M5218P
IC610	8-759-001-05	IC MC74HCU04N
IC701	8-759-937-60	IC MB88521-158M
IC702	8-759-802-76	IC LB1645N
IC704	8-759-924-08	IC CXQ88501-451S
IC705	8-759-925-63	IC MSM6404A-117GS-K
IC707	8-759-802-76	IC LB1645N
IC708	8-759-802-76	IC LB1645N
IC710	8-759-802-76	IC LB1645N
IC711	8-759-001-05	IC MC74HCU04N
IC712	8-759-001-05	IC MC74HCU04N
IC714	8-759-202-93	IC TC74HC153P
IC715	8-759-202-93	IC TC74HC153P

Ref.No.	Part No.	Description
IC716	8-759-001-05	IC MC74HCU04N
IC717	8-759-001-05	IC MC74HCU04N
IC721	8-759-203-14	IC TC74HC242P
IC722	8-759-203-14	IC TC74HC242P
IC725	8-759-700-81	IC NJM555D
IC726	8-759-140-01	IC UPD4001BC
IC801	8-759-202-74	IC TC74HC04P
IC802	8-759-803-19	IC LM6416E-2094
IC803	8-759-909-62	IC MB8264A-15P
IC804	8-759-909-62	IC MB8264A-15P
IC805	8-759-910-81	IC CX23037
IC806	8-759-910-80	IC CX23036
IC807	8-759-201-41	IC TD62901P
IC808	8-759-202-27	IC TC74HC157P
IC809	8-759-600-02	IC M5218L
IC810	8-759-600-02	IC M5218L
IC901	8-759-700-06	IC NJM7812B
IC902	8-759-700-06	IC NJM7812B
IC903	8-759-700-51	IC NJM7805A
IC904	8-759-179-12	IC UPC7912H
IC905	8-759-179-12	IC UPC7912H
IC909	8-759-145-84	IC UPD4584-BC
IC910	8-759-925-54	IC LM2940CT-5.0
IC911	8-759-700-28	IC NJM7905A
IC912	8-759-925-54	IC LM2940CT-5.0
IC913	8-759-171-15	IC UPC7815H
L51	1-408-563-00	INDUCTOR 10UH
L303	1-408-117-00	INDUCTOR 10UH
L701	1-408-117-00	INDUCTOR 10UH
L702	1-408-117-00	INDUCTOR 10UH
L801	1-410-328-11	INDUCTOR 10UH
LPF301	1-464-846-11	FILTER UNIT, LOW PASS
LPF401	1-464-846-11	FILTER UNIT, LOW PASS
M53	1-422-197-14	COIL (DRIVE)
M701	A-4608-329-A	MOTOR (C) ASSY, CHUKING
M702	A-4608-325-A	MOTOR (A) ASSY, CARRIER
M703	A-4608-327-A	MOTOR (B) ASSY, ARM
PH701	8-719-801-84	TLP802
PH702	8-719-801-84	TLP802
PH703	8-719-801-84	TLP802
PL701	1-518-594-11	LAMP, PILOT
PL702	1-518-594-11	LAMP, PILOT
PL703	1-518-594-11	LAMP, PILOT
PS701	1-454-411-11	SOLENOID, PLUNGER
Q001	8-729-900-89	TRANSISTOR DTC144ES
Q002	8-729-806-20	TRANSISTOR 2SA1345
Q003	8-729-806-20	TRANSISTOR 2SA1345
Q004	8-729-900-89	TRANSISTOR DTC144ES
Q005	8-729-900-89	TRANSISTOR DTC144ES
Q006	8-729-900-89	TRANSISTOR DTC144ES
Q007	8-729-900-89	TRANSISTOR DTC144ES
Q151	8-729-206-49	TRANSISTOR 2SC3666Y
Q152	8-729-206-43	TRANSISTOR 2SA1426Y
Q153	8-729-206-49	TRANSISTOR 2SC3666Y
Q154	8-729-206-43	TRANSISTOR 2SA1426Y
Q301	8-729-107-99	TRANSISTOR 2SC3622A-K

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
Q302	8-729-800-43	TRANSISTOR 2SK152-3	R024	1-249-405-11	CARBON 100 5% 1/4W
Q303	8-729-107-99	TRANSISTOR 2SC3622A-K	R025	1-249-429-11	CARBON 10K 5% 1/4W
Q401	8-729-107-99	TRANSISTOR 2SC3622A-K	R026	1-249-429-11	CARBON 10K 5% 1/4W
Q402	8-729-800-43	TRANSISTOR 2SK152-3	R027	1-249-441-11	CARBON 100K 5% 1/4W
Q403	8-729-107-99	TRANSISTOR 2SC3622A-K	R028	1-249-441-11	CARBON 100K 5% 1/4W
Q501	8-729-206-49	TRANSISTOR 2SC3666Y	R029	1-249-405-11	CARBON 100 5% 1/4W
Q502	8-729-206-43	TRANSISTOR 2SA1426Y	R030	1-249-405-11	CARBON 100 5% 1/4W
Q503	8-729-206-49	TRANSISTOR 2SC3666Y	R031	1-249-437-11	CARBON 47K 5% 1/4W
Q504	8-729-206-43	TRANSISTOR 2SA1426Y	R032	1-249-437-11	CARBON 47K 5% 1/4W
Q505	8-729-206-49	TRANSISTOR 2SC3666Y	R033	1-249-429-11	CARBON 10K 5% 1/4W
Q506	8-729-206-43	TRANSISTOR 2SA1426Y	R034	1-249-437-11	CARBON 47K 5% 1/4W
Q507	8-729-117-54	TRANSISTOR 2SA1175	R035	1-249-429-11	CARBON 10K 5% 1/4W
Q508	8-729-600-27	TRANSISTOR 2SC634SP	R036	1-249-429-11	CARBON 10K 5% 1/4W
Q601	8-729-806-28	TRANSISTOR 2SC3402	R037	1-249-429-11	CARBON 10K 5% 1/4W
Q707	8-729-900-89	TRANSISTOR DTC144ES	R038	1-249-437-11	CARBON 47K 5% 1/4W
Q708	8-729-806-28	TRANSISTOR 2SC3402	R039	1-249-437-11	CARBON 47K 5% 1/4W
Q714	8-729-806-28	TRANSISTOR 2SC3402	R041	1-249-437-11	CARBON 47K 5% 1/4W
Q715	8-729-806-28	TRANSISTOR 2SC3402	R042	1-249-437-11	CARBON 47K 5% 1/4W
Q721	8-729-806-28	TRANSISTOR 2SC3402	R043	1-249-437-11	CARBON 47K 5% 1/4W
Q722	8-729-806-28	TRANSISTOR 2SC3402	R044	1-249-437-11	CARBON 47K 5% 1/4W
Q723	8-729-806-28	TRANSISTOR 2SC3402	R045	1-249-437-11	CARBON 47K 5% 1/4W
Q751	8-729-806-20	TRANSISTOR 2SA1345	R046	1-249-437-11	CARBON 47K 5% 1/4W
Q753	8-729-900-74	TRANSISTOR DTC143TS	R050	1-249-417-11	CARBON 1K 5% 1/4W
Q770	8-729-806-20	TRANSISTOR 2SA1345	R051	1-249-417-11	CARBON 1K 5% 1/4W
Q771	8-729-900-89	TRANSISTOR DTC144ES	R052	1-249-417-11	CARBON 1K 5% 1/4W
Q772	8-729-900-89	TRANSISTOR DTC144ES	R053	1-249-417-11	CARBON 1K 5% 1/4W
Q773	8-729-117-54	TRANSISTOR 2SA1175	R151	1-249-417-11	CARBON 1K 5% 1/4W
Q901	9-986-159-01	TRANSISTOR 2SA1348	R152	1-249-417-11	CARBON 1K 5% 1/4W
Q902	8-729-806-28	TRANSISTOR 2SC3402	R153	1-249-417-11	CARBON 1K 5% 1/4W
Q907	8-729-600-27	TRANSISTOR 2SC634SP	R154	1-249-417-11	CARBON 1K 5% 1/4W
Q908	8-729-600-27	TRANSISTOR 2SC634SP	R155	1-249-417-11	CARBON 1K 5% 1/4W
Q910	9-986-159-01	TRANSISTOR 2SA1348	R156	1-249-417-11	CARBON 1K 5% 1/4W
Q911	8-729-806-28	TRANSISTOR 2SC3402	R157	1-247-887-00	CARBON 220K 5% 1/4W
Q991	8-729-900-74	TRANSISTOR DTC143TS	R158	1-247-887-00	CARBON 220K 5% 1/4W
Q992	8-729-900-74	TRANSISTOR DTC143TS	R159	1-247-887-00	CARBON 220K 5% 1/4W
Q993	8-729-900-74	TRANSISTOR DTC143TS	R160	1-247-887-00	CARBON 220K 5% 1/4W
Q994	8-729-900-74	TRANSISTOR DTC143TS	R301	1-249-409-11	CARBON 220 5% 1/4W
R001	1-247-887-00	CARBON 220K 5% 1/4W	R302	1-249-425-11	CARBON 4.7K 5% 1/4W
R002	1-247-887-00	CARBON 220K 5% 1/4W	R303	1-249-425-11	CARBON 4.7K 5% 1/4W
R003	1-249-429-11	CARBON 10K 5% 1/4W	R304	1-215-493-00	CARBON 1M 5% 1/4W
R004	1-249-429-11	CARBON 10K 5% 1/4W	R305	1-249-429-11	CARBON 10K 5% 1/4W
R005	1-249-429-11	CARBON 10K 5% 1/4W	R306	1-249-413-11	CARBON 470 5% 1/4W
R006	1-249-429-11	CARBON 10K 5% 1/4W	R307	1-215-434-00	CARBON 3.6K 5% 1/4W
R007	1-215-438-00	CARBON 5.1K 5% 1/4W	R308	1-249-423-11	CARBON 3.3K 5% 1/4W
R009	1-215-493-00	CARBON 1M 5% 1/4W	R309	1-249-424-11	CARBON 3.9K 5% 1/4W
R010	1-247-887-00	CARBON 220K 5% 1/4W	R310	1-215-440-00	CARBON 6.2K 5% 1/4W
R011	1-247-887-00	CARBON 220K 5% 1/4W	R311	1-249-431-11	CARBON 15K 5% 1/4W
R012	1-249-429-11	CARBON 10K 5% 1/4W	R312	1-249-421-11	CARBON 2.2K 5% 1/4W
R013	1-249-429-11	CARBON 10K 5% 1/4W	R314	1-249-419-11	CARBON 1.5K 5% 1/4W
R014	1-249-429-11	CARBON 10K 5% 1/4W	R315	1-249-425-11	CARBON 4.7K 5% 1/4W
R015	1-249-429-11	CARBON 10K 5% 1/4W	R316	1-249-436-11	CARBON 39K 5% 1/4W
R016	1-215-438-00	CARBON 5.1K 5% 1/4W	R318	1-249-425-11	CARBON 4.7K 5% 1/4W
R018	1-215-493-00	CARBON 1M 5% 1/4W	R319	1-249-409-11	CARBON 220 5% 1/4W
R019	1-249-429-11	CARBON 10K 5% 1/4W	R320	1-249-441-11	CARBON 100K 5% 1/4W
R020	1-249-429-11	CARBON 10K 5% 1/4W	R401	1-249-409-11	CARBON 220 5% 1/4W
R021	1-249-441-11	CARBON 100K 5% 1/4W	R402	1-249-425-11	CARBON 4.7K 5% 1/4W
R022	1-249-441-11	CARBON 100K 5% 1/4W	R403	1-249-425-11	CARBON 4.7K 5% 1/4W
R023	1-249-405-11	CARBON 100 5% 1/4W			

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R404	1-215-493-00	CARBON	1M	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-249-413-11	CARBON	470	5%	1/4W
R407	1-215-434-00	CARBON	3.6K	5%	1/4W
R408	1-249-423-11	CARBON	3.3K	5%	1/4W
R409	1-249-424-11	CARBON	3.9K	5%	1/4W
R410	1-215-440-00	CARBON	6.2K	5%	1/4W
R411	1-249-431-11	CARBON	15K	5%	1/4W
R412	1-249-421-11	CARBON	2.2K	5%	1/4W
R419	1-249-409-11	CARBON	220	5%	1/4W
R420	1-249-441-11	CARBON	100K	5%	1/4W
R451	1-215-434-00	CARBON	3.6K	5%	1/4W
R452	1-249-429-11	CARBON	10K	5%	1/4W
R453	1-249-429-11	CARBON	10K	5%	1/4W
R454	1-249-419-11	CARBON	1.5K	5%	1/4W
R455	1-249-441-11	CARBON	100K	5%	1/4W
R456	1-249-441-11	CARBON	100K	5%	1/4W
R457	1-247-838-00	CARBON	2K	5%	1/4W
R458	1-249-427-11	CARBON	6.8K	5%	1/4W
R459	1-249-441-11	CARBON	100K	5%	1/4W
R460	1-249-441-11	CARBON	100K	5%	1/4W
R461	1-249-441-11	CARBON	100K	5%	1/4W
R462	1-249-441-11	CARBON	100K	5%	1/4W
R463	1-249-429-11	CARBON	10K	5%	1/4W
R464	1-249-429-11	CARBON	10K	5%	1/4W
R465	1-249-429-11	CARBON	10K	5%	1/4W
R466	1-247-895-00	CARBON	470K	5%	1/4W
R501	1-249-434-11	CARBON	27K	5%	1/4W
R502	1-249-427-11	CARBON	6.8K	5%	1/4W
R503	1-249-405-11	CARBON	100	5%	1/4W
R504	1-249-435-11	CARBON	33K	5%	1/4W
R505	1-249-405-11	CARBON	100	5%	1/4W
R506	1-247-883-00	CARBON	150K	5%	1/4W
R507	1-215-489-00	CARBON	680K	5%	1/4W
R508	1-249-409-11	CARBON	220	5%	1/4W
R509	1-249-425-11	CARBON	4.7K	5%	1/4W
R510	1-249-411-11	CARBON	330	5%	1/4W
R511	1-249-431-11	CARBON	15K	5%	1/4W
R512	1-249-436-11	CARBON	39K	5%	1/4W
R513	1-249-436-11	CARBON	39K	5%	1/4W
R514	1-249-417-11	CARBON	1K	5%	1/4W
R515	1-215-493-00	CARBON	1M	5%	1/4W
R516	1-249-424-11	CARBON	3.9K	5%	1/4W
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-249-423-11	CARBON	3.3K	5%	1/4W
R519	1-249-431-11	CARBON	15K	5%	1/4W
R520	1-249-417-11	CARBON	1K	5%	1/4W
R521	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-249-429-11	CARBON	10K	5%	1/4W
R523	1-247-895-00	CARBON	470K	5%	1/4W
R524	1-249-422-11	CARBON	2.7K	5%	1/4W
R527	1-249-430-11	CARBON	12K	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W
R529	1-249-429-11	CARBON	10K	5%	1/4W
R530	1-249-420-11	CARBON	1.8K	5%	1/4W
R531	1-249-441-11	CARBON	100K	5%	1/4W
R532	1-249-431-11	CARBON	15K	5%	1/4W

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R533	1-249-427-11	CARBON	6.8K	5%	1/4W
R534	1-249-417-11	CARBON	1K	5%	1/4W
R535	1-249-435-11	CARBON	33K	5%	1/4W
R536	1-215-454-00	CARBON	24K	5%	1/4W
R537	1-249-427-11	CARBON	6.8K	5%	1/4W
R538	1-247-895-00	CARBON	470K	5%	1/4W
R539	1-247-895-00	CARBON	470K	5%	1/4W
R540	1-249-433-11	CARBON	22K	5%	1/4W
R541	1-249-429-11	CARBON	10K	5%	1/4W
R542	1-249-425-11	CARBON	4.7K	5%	1/4W
R545	1-249-417-11	CARBON	1K	5%	1/4W
R547	1-249-426-11	CARBON	5.6K	5%	1/4W
R548	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-249-435-11	CARBON	33K	5%	1/4W
R601	1-247-887-00	CARBON	220K	5%	1/4W
R602	1-249-423-11	CARBON	3.3K	5%	1/4W
R603	1-249-436-11	CARBON	39K	5%	1/4W
R604	1-214-757-00	METAL	15K	1%	1/4W
R605	1-214-761-00	METAL	22K	1%	1/4W
R606	1-249-433-11	CARBON	22K	5%	1/4W
R607	1-215-446-00	CARBON	11K	5%	1/4W
R608	1-215-446-00	CARBON	11K	5%	1/4W
R609	1-214-749-00	METAL	6.8K	1%	1/4W
R610	1-215-493-00	CARBON	1M	5%	1/4W
R611	1-214-749-00	METAL	6.8K	1%	1/4W
R612	1-215-444-00	CARBON	9.1K	5%	1/4W
R613	1-214-761-00	METAL	22K	1%	1/4W
R614	1-214-745-00	METAL	4.7K	1%	1/4W
R615	1-214-761-00	METAL	22K	1%	1/4W
R616	1-249-422-11	CARBON	2.7K	5%	1/4W
R617	1-249-430-11	CARBON	12K	5%	1/4W
R618	1-247-838-00	CARBON	2K	5%	1/4W
R619	1-249-440-11	CARBON	82K	5%	1/4W
R620	1-249-433-11	CARBON	22K	5%	1/4W
R621	1-249-429-11	CARBON	10K	5%	1/4W
R623	1-249-441-11	CARBON	100K	5%	1/4W
R624	1-249-441-11	CARBON	100K	5%	1/4W
R625	1-249-441-11	CARBON	100K	5%	1/4W
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
R703	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-249-441-11	CARBON	100K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
R706	1-249-441-11	CARBON	100K	5%	1/4W
R708	1-249-425-11	CARBON	4.7K	5%	1/4W
R709	1-249-417-11	CARBON	1K	5%	1/4W
R710	1-249-407-11	CARBON	150	5%	1/4W
R711	1-249-407-11	CARBON	150	5%	1/4W
R712	1-249-407-11	CARBON	150	5%	1/4W
R713	1-249-407-11	CARBON	150	5%	1/4W
R714	1-249-407-11	CARBON	150	5%	1/4W
R715	1-249-407-11	CARBON	150	5%	1/4W
R716	1-249-407-11	CARBON	150	5%	1/4W
R717	1-249-407-11	CARBON	150	5%	1/4W
R718	1-249-425-11	CARBON	4.7K	5%	1/4W
R719	1-249-425-11	CARBON	4.7K	5%	1/4W
R728	1-249-411-11	CARBON	330	5%	1/4W

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Ref.No.	Part No.	Description			
R733	1-249-407-11	CARBON	150	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
R743	1-249-420-11	CARBON	1.8K	5%	1/4W
R744	1-249-420-11	CARBON	1.8K	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W
R755	1-249-441-11	CARBON	100K	5%	1/4W
R756	1-249-441-11	CARBON	100K	5%	1/4W
R757	1-249-441-11	CARBON	100K	5%	1/4W
R758	1-215-493-00	CARBON	1M	5%	1/4W
R759	1-215-493-00	CARBON	1M	5%	1/4W
R760	1-215-493-00	CARBON	1M	5%	1/4W
R762	1-249-420-11	CARBON	1.8K	5%	1/4W
R763	1-249-420-11	CARBON	1.8K	5%	1/4W
R764	1-249-420-11	CARBON	1.8K	5%	1/4W
R765	1-249-420-11	CARBON	1.8K	5%	1/4W
R766	1-249-420-11	CARBON	1.8K	5%	1/4W
R767	1-249-420-11	CARBON	1.8K	5%	1/4W
R768	1-249-420-11	CARBON	1.8K	5%	1/4W
R769	1-249-441-11	CARBON	100K	5%	1/4W
R770	1-249-429-11	CARBON	10K	5%	1/4W
R771	1-249-433-11	CARBON	22K	5%	1/4W
R785	1-249-429-11	(CARRIER BOARD)...CARBON	10K	5%	1/4W
R785	1-249-432-11	(MAIN BOARD).....CARBON	18K	5%	1/4W
R786	1-249-407-11	(CARRIER BOARD)...CARBON	150	5%	1/4W
R786	1-215-462-00	(MAIN BOARD).....CARBON	51K	5%	1/4W
R787	1-249-429-00	(MAIN BOARD).....CARBON	10K	5%	1/4W
R787	1-249-429-11	(CARRIER BOARD)...CARBON	10K	5%	1/4W
R789	1-249-405-11	CARBON	100	5%	1/4W
R790	1-249-429-11	CARBON	10K	5%	1/4W
R791	1-249-420-11	CARBON	1.8K	5%	1/4W
R792	1-249-420-11	CARBON	1.8K	5%	1/4W
R793	1-249-420-11	CARBON	1.8K	5%	1/4W
R794	1-249-420-11	CARBON	1.8K	5%	1/4W
R795	1-249-420-11	CARBON	1.8K	5%	1/4W
R796	1-249-420-11	CARBON	1.8K	5%	1/4W
R797	1-249-420-11	CARBON	1.8K	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-429-11	CARBON	10K	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-249-437-11	CARBON	47K	5%	1/4W
R807	1-249-437-11	CARBON	47K	5%	1/4W
R808	1-249-437-11	CARBON	47K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W

Ref.No.	Part No.	Description			
R810	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-249-417-11	CARBON	1K	5%	1/4W
R813	1-249-429-11	CARBON	10K	5%	1/4W
R814	1-249-429-11	CARBON	10K	5%	1/4W
R815	1-249-429-11	CARBON	10K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-429-11	CARBON	10K	5%	1/4W
R818	1-249-429-11	CARBON	10K	5%	1/4W
R819	1-249-429-11	CARBON	10K	5%	1/4W
R820	1-249-429-11	CARBON	10K	5%	1/4W
R821	1-215-438-00	CARBON	5.1K	5%	1/4W
R822	1-215-430-00	CARBON	2.4K	5%	1/4W
R823	1-215-438-00	CARBON	5.1K	5%	1/4W
R824	1-249-423-11	CARBON	3.3K	5%	1/4W
R825	1-247-892-00	CARBON	360K	5%	1/4W
R826	1-247-892-00	CARBON	360K	5%	1/4W
R827	1-249-423-11	CARBON	3.3K	5%	1/4W
R828	1-249-409-11	CARBON	220	5%	1/4W
R829	1-249-441-11	CARBON	100K	5%	1/4W
R830	1-249-417-11	CARBON	1K	5%	1/4W
R838	1-247-892-00	CARBON	360K	5%	1/4W
R905	1-249-429-11	CARBON	10K	5%	1/4W
R906	1-249-435-11	CARBON	33K	5%	1/4W
R907	1-247-881-00	CARBON	120K	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-393-11	CARBON	10	5%	1/4W
R917	1-249-441-11	CARBON	100K	5%	1/4W
R918	1-249-436-11	CARBON	39K	5%	1/4W
R919	1-249-436-11	CARBON	39K	5%	1/4W
R920	1-249-441-11	CARBON	100K	5%	1/4W
R921	1-249-441-11	CARBON	100K	5%	1/4W
R978	1-249-436-11	CARBON	39K	5%	1/4W
R979	1-249-436-11	CARBON	39K	5%	1/4W
R991	1-249-413-11	CARBON	470	5%	1/4W
RV501	1-226-703-11	RES, ADJ, METAL GLAZE	10K		
RV502	1-226-703-11	RES, ADJ, METAL GLAZE	10K		
RV602	1-226-702-00	RES, ADJ, METAL GLAZE	2.2K		
RV701	1-226-702-00	RES, ADJ, METAL GLAZE	2.2K		
RY701	1-515-519-00	RELAY			

SEE ADDITIONAL
SEE INFORMATION

Ref.No.	Part No.	Description
S1	A.1-553-575-21	SWITCH, SEESAW (POWER)
S701	1-570-561-11	SWITCH, MICRO (CHUCKING OFF)
S702	1-570-561-11	SWITCH, MICRO (LIMIT DETECT)
S703	1-570-561-11	SWITCH, MICRO (ARM UP)
S704	1-570-561-11	SWITCH, MICRO (END DETECT)
S705	1-570-561-11	SWITCH, MICRO (DISC HOLD)
S706	1-570-561-11	SWITCH, MICRO (CHUCKING ON)
S707	1-570-028-11	SWITCH, MICRO (DISC DETECT)
S708	1-570-561-11	SWITCH, MICRO (RLS)
S709	1-570-561-11	SWITCH, MICRO (CHUCKING END)
S710	1-570-561-11	SWITCH, MICRO (DISC HOLDER DETECT)
S711	1-570-562-11	SWITCH, MICRO (DOOR)
S713	1-570-560-11	SWITCH, ROTARY (DOOR LOCK)
S714	1-570-562-11	SWITCH, MICRO (LASER ON)
S715	1-570-561-11	SWITCH, MICRO (ARM MOTOR OFF)
S750	1-554-303-21	SWITCH, KEY BOARD (RST)
S751	1-570-313-11	SWITCH, KEY BOARD (PREV)
S752	1-570-313-11	SWITCH, KEY BOARD (NEXT)
S753	1-570-313-11	SWITCH, KEY BOARD (PAUSE)
S754	1-570-313-11	SWITCH, KEY BOARD (PLAY)
S755	1-554-076-21	SWITCH, SLIDE (TEST)
S756	1-554-076-21	SWITCH, SLIDE (1/60)
S761	1-552-539-00	SWITCH, KEY BOARD (DOOR OPEN)
S771	1-554-303-21	SWITCH, KEY BOARD (TEST)
S772	1-570-313-11	SWITCH, KEY BOARD (A.F)
S773	1-570-313-11	SWITCH, KEY BOARD (A.R)
S774	1-570-313-11	SWITCH, KEY BOARD (C-L)
S775	1-570-313-11	SWITCH, KEY BOARD (HOLD)
S776	1-570-313-11	SWITCH, KEY BOARD (RLS)
S777	1-570-313-11	SWITCH, KEY BOARD (C-R)
SW990	1-570-026-11	SWITCH, DIGITAL (SMALL TYPE) (LOADER, NUMBER)
SE51	1-422-198-11	COIL (SENSOR)
T1	A.1-449-103-11	TRANSFORMER, POWER
T301	1-406-123-11	COIL (OSC)
T601	1-426-212-11	COIL (RF)
T610	1-426-212-11	COIL (RF)
T901	A.1-421-340-00	LINE FILTER
TP701	*1-560-061-00	PIN, CONNECTOR 3P
X301	1-567-336-11	VIBRATOR, CRYSTAL (67.2MHz)
X601	1-567-301-11	OSCILLATOR, CRYSTAL (8.4672MHz)
X701	1-527-822-00	OSCILLATOR, CERAMIC (4.000MHz)

ACCESSORY & PACKING MATERIAL

1-557-323-22	CORD, CONNECTION
1-558-622-11	CORD, CONNECTION
1-558-759-11	CORD (WITH TERMINAL)
3-701-616-00	BAG, POLYETHYLENE
3-769-626-41	MANUAL, INSTRUCTION
4-915-879-01	HOLDER, TRAY
4-915-880-01	SHEET, PROTECTION
4-915-881-01	SHEET, PROTECTION, TRAY
4-915-882-01	CUSHION (RIGHT), UPPER
4-915-883-01	CUSHION (LEFT), UPPER
4-915-884-01	CUSHION (RIGHT), LOWER
4-915-885-01	CUSHION (LEFT), LOWER
*4-915-887-01	COVER, DIGITAL SW
4-917-108-01	INDIVIDUAL CARTON
X-4904-613-1	KEY ASSY

Troubleshooting Guide

Problem	Cause	Remedy
The disc loader does not function.	• It is not connected correctly. • The POWER switch is turned to "OFF". • The door of the disc loader is open. • The handle of the disc holder is not locked properly.	• Make sure the connections are made properly. • Turn it to "ON". • Close the door and lock it. • Firmly lock the handle.
The CD does not play.	• There is no disc. • The disc is upside down. • The key to open the door has been turned to the left and the indicator light is on.	• Insert a disc. • Insert the disc with the label facing the right. • Turn the key to the right and make sure the indicator light turns off.
CD playback sound skips or noise is heard.	• The compact disc is dirty.	• Wipe the disc with the optional cleaning cloth.
Playback does not start.	• Moisture condensation occurred.	• Turn the POWER on and leave the system for approx. 1 hour.

CDK-3000P II

SONY[®] SERVICE MANUAL

UK Model

SUPPLEMENT-1

File this supplement with the service manual.

- | | |
|-----------|--|
| Subjects: | 1. Removal of End Detect Switch (S704).
2. Modification on PITCH CONTROL BOARD.
3. Removal of Motor Relay (RY701).
4. Removal of Door Close Switch (S711).
5. The latest Schematic-, Printed Wiring Boards-
Diagrams and Electrical Parts List. |
|-----------|--|

The above modifications (1-4) have been applied to the sets serial-numbered later than 0300. (See the last 4 digits of the serial number.)

1. Since the carrier detection plate(R) (4-915-147-01) has been changed to suffix -04 type, S704 cannot operate at all.

Accordingly, S704 may be removed from the set with such carrier detection plate (4-915-147-04).

Ref. No.	Part No.	Modification	Description
913 S704	*1-618-442-11 1-570-561-11	Removal Removal	PC BOARD, END SWITCH SWITCH, MICRO

2. PITCH CONTROL BOARD and the circuit were modified, provided that the new and old mounted boards are replaceable.

Ref. No.	Part No.	New Part No.	Description
920	*A-4646-398-A (1-624-330-11, -12)	*A-4646-398-A (1-624-330-13)	MOUNTED PCB, PITCH CONTROL (Bare board is not supplied.)

3. In the modeified type, IC708 controls CARRIER MOTOR even under transportaion protection. Then RY701 was removed and MAIN and MOTOR OFF BOARDS were modified.

Ref. No.	Part No.	Modification	Description
RY701	1-515-519-00	Removal	RELAY
D712	8-719-940-76	Removal	DIODE 1SS132
Q708	8-729-900-80	Removal	DIGITAL TRANSISTOR DTC114ES
931	1-618-431-11, to -13	Change to -14	MOUNTED PCB, MAIN
920	1-618-444-11,-12	Change to -13	MOUNTED PCB, MOTOR OFF

Note: When either MAIN or MOTOR OFF BOARDS is replaced to new one, the following modifications are needed on MOTOR OFF BOARD, dependidng on the combinations.

- a) MAIN(-11 to -13) & MOTOR OFF(-13) b) MAIN(-14) & MOTOR OFF(-11, -12)

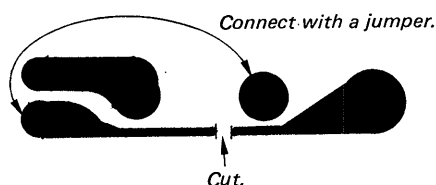


Fig. (a)

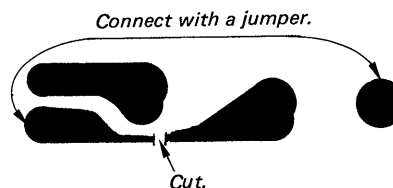


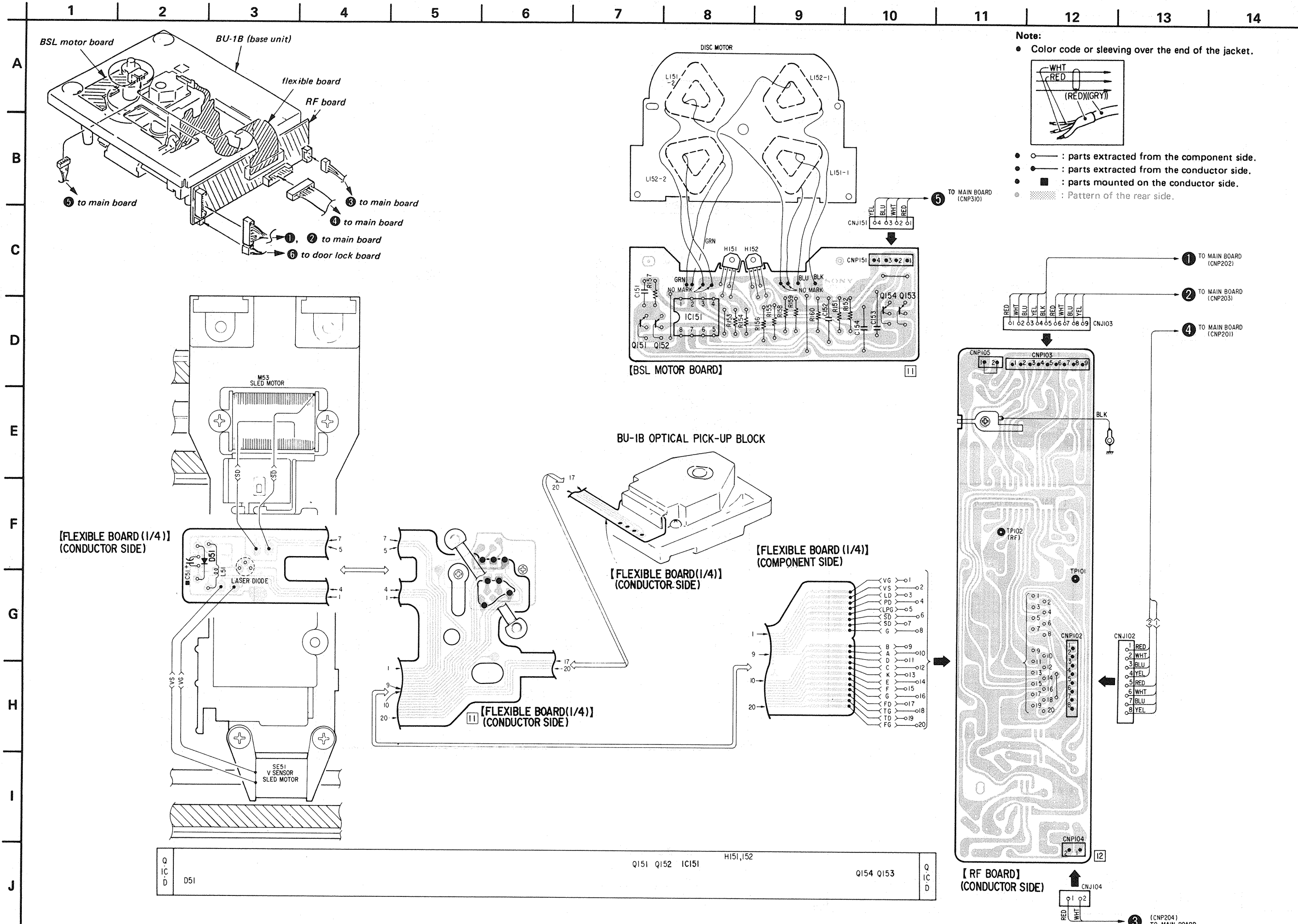
Fig. (b)

4. S711(door open/close detection switch) was removed, and DOOR LOCK and CLOSE SW BOARDS were modified. When necessary to replace one of them, replace both of them to new ones.

Ref. No.	Part No.	New Part No.	Description
915	*A-464-337-A (1-618-437-11)	*A-464-337-A (1-618-437-12)	MOUNTED PCB, DOOR LOCK (Bare board is not supplied.)
916	*1-618-438-11	*1-618-438-12	PCB, CLOSE SW
CNP711	*1-560-071-00	Removal	PLUG, CONNECTOR (2P)
CNP714	1-564-505-21	1-564-506-11	PLUG, CONNECTOR (5P to 3P)
S714	1-570-562-11	Removal	SWITCH, MICRO

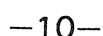
5. THE SCHEMATIC-, PRINTED WIRING BOALRDS-DIAGRAMS AND ELECTRICAL PARTS LIST.

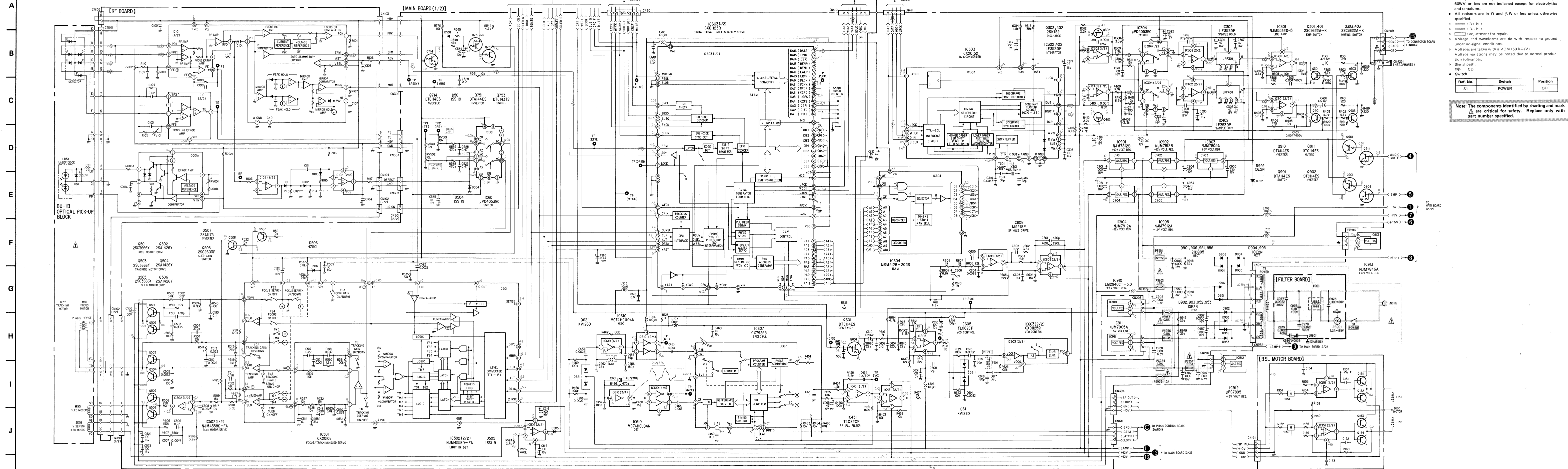
MOUNTING DIAGRAM — BU-1B (BASE UNIT) SECTION —



• SEMICONDUCTOR LOCATION — for main section —

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	I-22	IC502	J-23	Q001	F-12
D504	G-24	IC601	H-24	Q002	F-12
D505	I-23	IC603	H-28	Q003	I-13
D506	I-24	IC604	H-29	Q004	G-11
D611	G-26	IC605	G-25	Q005	G-11
D621	K-28	IC607	J-28	Q006	F-11
D701	H-18	IC608	F-22	Q007	H-16
D702	F-18	IC610	J-29	Q301	C-28
D703	E-18	IC701	C-19	Q302	E-29
D704	F-19	IC702	G-17	Q303	B-28
D705	I-18	IC704	G-19	Q401	C-28
D708	E-18	IC705	I-27	Q402	E-28
D711	H-20	IC707	F-17	Q403	B-28
D712	I-17	IC708	G-17	Q501	K-24
D713	I-21	IC710	F-19	Q502	K-24
D715	G-3	IC711	H-20	Q503	K-25
D753	F-19	IC712	H-20	Q504	K-25
D754	F-18	IC714	J-18	Q505	J-23
D755	G-18	IC715	K-19	Q506	J-23
D773	I-19	IC716	B-18	Q507	I-23
D801	K-34	IC717	D-20	Q508	I-23
D901	B-26	IC721	D-18	Q601	F-27
D902	B-23	IC722	B-20	Q707	F-18
D903	B-23	IC725	H-18	Q708	I-18
D904	B-24	IC726	I-19	Q714	I-22
D905	B-24	IC801	K-32	Q715	I-23
D906	B-26	IC802	I-32	Q721	D-20
D951	B-25	IC803	I-33	Q722	D-20
D952	D-23	IC804	I-33	Q723	C-20
D953	B-23	IC805	J-34	Q751	J-22
D956	B-25	IC806	K-35	Q753	J-22
D991	F-20	IC807	J-37	Q770	I-18
D992	F-26	IC808	I-37	Q771	I-18
		IC809	K-33	Q772	I-18
IC001	H-12	IC810	K-34	Q773	E-18
IC002	I-12	IC901	D-26	Q901	B-29
IC003	E-11	IC902	D-26	Q902	B-29
IC004	D-12	IC903	E-26	Q907	C-21
IC005	F-16	IC904	D-24	Q908	B-21
IC006	G-16	IC905	D-24	Q910	B-29
IC007	G-13	IC909	B-22	Q911	B-29
IC008	H-13	IC910	C-31	Q991	B-22
IC009	H-14	IC911	D-31	Q992	B-22
IC301	C-28	IC912	B-31	Q993	B-22
IC302	E-29	IC913	D-31	Q994	F-19
IC303	F-28				
IC304	D-28	PH701	G-5		
IC402	E-27	PH702	G-6		
IC451	K-28	PH703	E-5		
IC501	I-25				





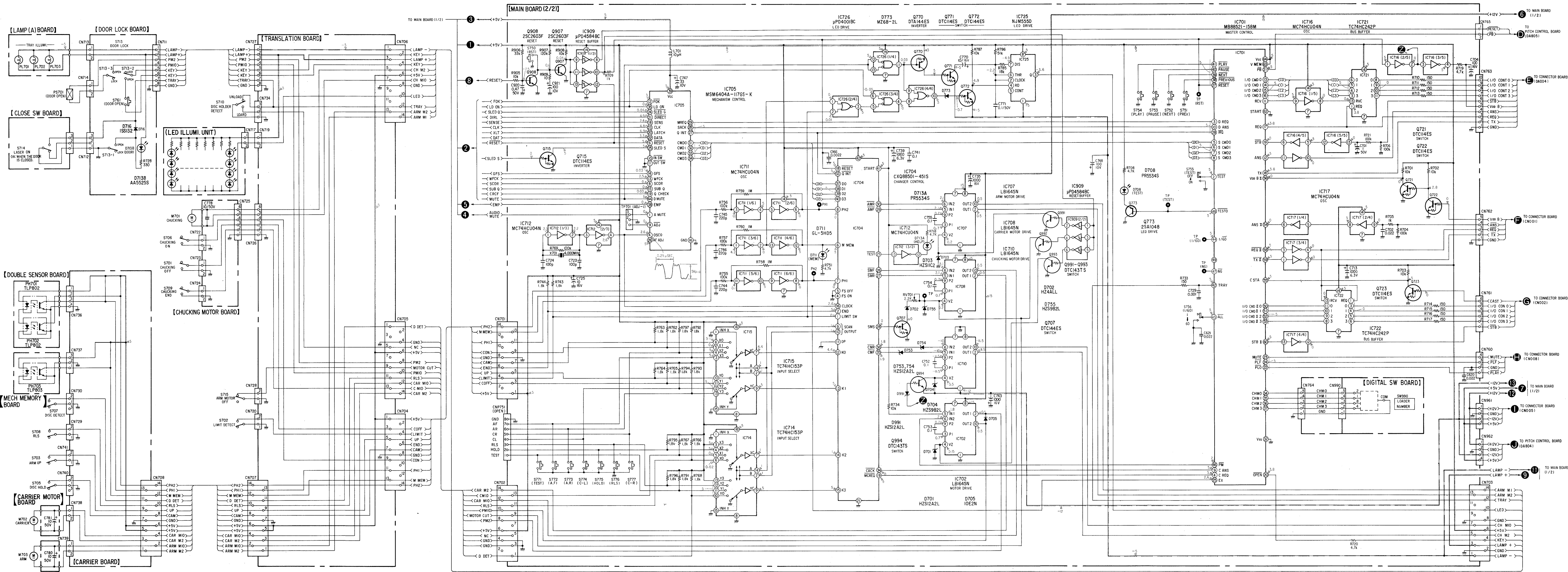
SCHEMATIC DIAGRAM — CONTROL SECTION —

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\text{B}+$: bus.
- $\text{B}-$: bus.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S701	CHUCKING	OFF
S702	LIMIT OFF	OFF
S703	ARM UP	OFF
S704	END DETECT	OFF
S705	DISC HOLD	OFF
S706	CHUCKING ON	OFF
S707	DISC DETECT	OFF
S708	RLS	ON
S709	CHUCKING END	OFF
S710	DISC HOLD DETECT	INSTALL
S711	DOOR OPEN/CLOSE	OFF
S713	DOOR OPEN RELEASE	OFF
S714	LASER ON	OFF
S715	ARM MOTOR OFF	OFF
S750	RST	OFF
S751	PREV	OFF
S752	NEXT	OFF
S753	PAUSE	OFF
S754	PLAY	OFF
S755	TEST	OFF
S756	ALL	1
S761	DOOR OPEN	OFF
S771	TEST	OFF
S772	A-F	OFF
S773	A-R	OFF
S774	C-L	OFF
S775	HOLD	OFF
S776	RLS	OFF
S777	C-R	OFF
SW990	LOADER NUMBER	"0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

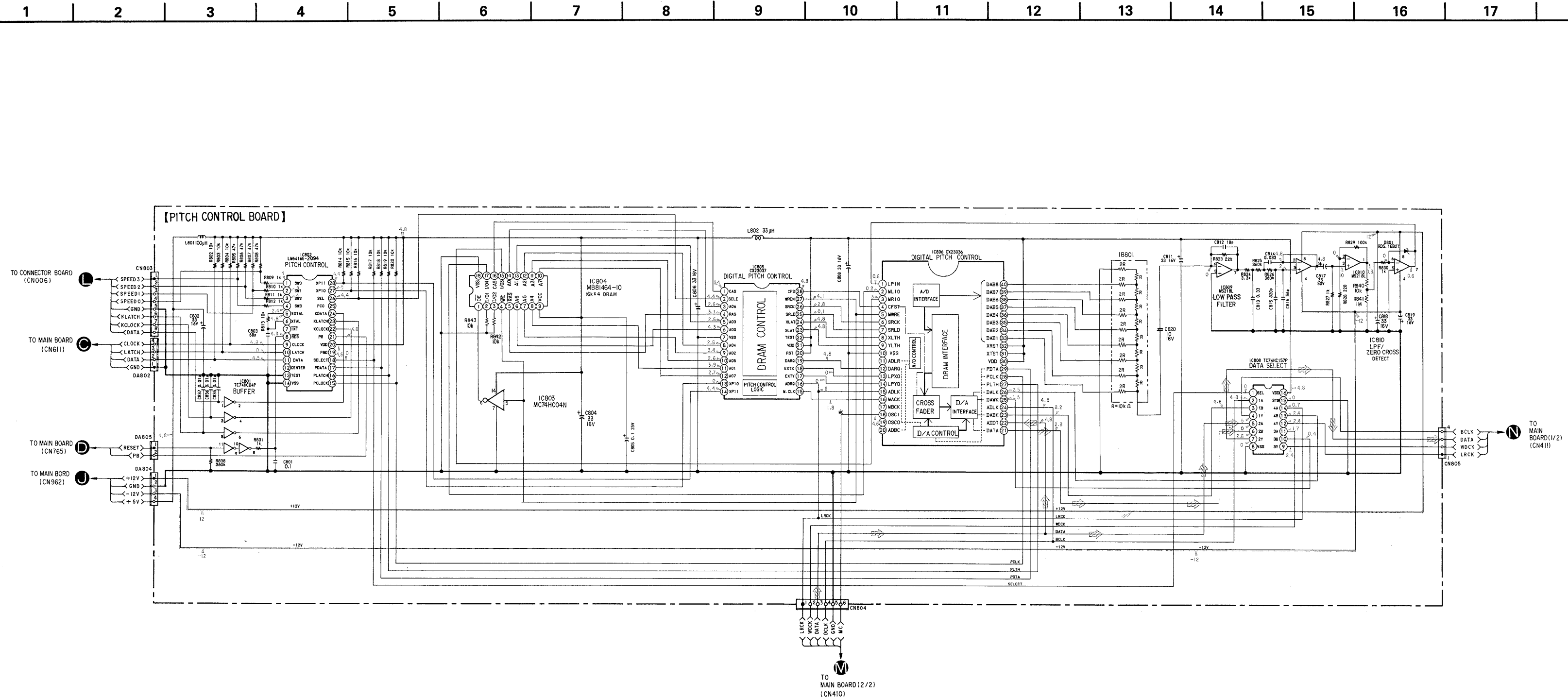


Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\text{B}+$ bus.
- $\text{B}-$ bus.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
- CD

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- ③  : B + bus.
- ③  : B - bus.
- ③ Voltage and waveforms are dc with respect to ground under no-signal conditions.
- ③ Voltages are taken with a VOM (50 k Ω /V).
Voltage variations may be noted due to normal production tolerances.
- ③ Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- ③ Signal path.
 : CD

SCHEMATIC DIAGRAM — PITCH CONTROL SECTION —

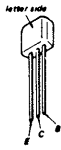
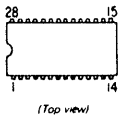
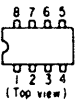
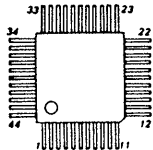
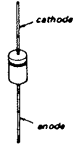
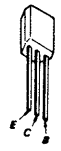
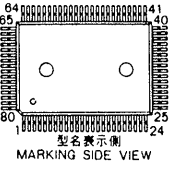
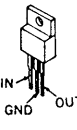
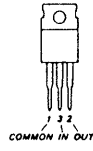
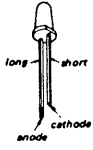
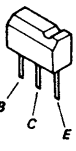
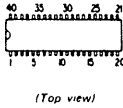
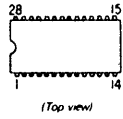
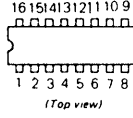
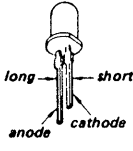
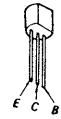
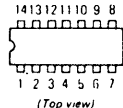
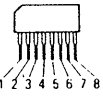
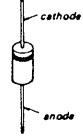
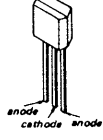
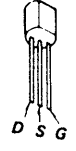
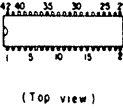
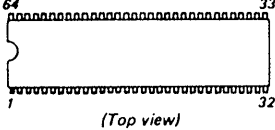
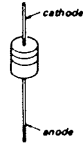
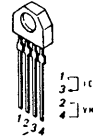
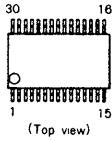
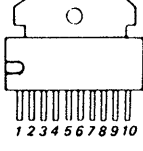
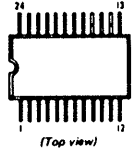


Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- : B+ bus.
- : B- bus.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Signal path.
- : CD
- Switch

Ref. No.	Switch	Position
S801	TEST	OFF

SEMICONDUCTOR LEAD LAYOUTS

2SA1175 	CX20152 CX23037  (Top view)	LF353DP M5218P NJM4558D NJM4558D-FA NJM4560D-D NJM5532D-D TL082CP  (Top view)	MSM6404A-117GS-K 	21DQ05 
2SA1345 2SA1348 2SC634SP 2SC3402 DTC143TS DTC144ES 	CX23035  MARKING SIDE VIEW	LM2940CT-5.0 NJM7805A NJM7812B μPC7815H 	NJM7905A μPC7912H  COMMON IN OUT	AA5525S 
2SA1426Y 2SC3666Y 	CX23036  (Top view)	LM6416E-2094  (Top view)	HD14053BP MB8264A-15P TC74HC153P TC74HC157P TD62901P μPD4050BC  (Top view)	GL-5HD5 
2SC3622A-K 	CX770 CX7925B MC74HCU04N TC74HC04P TC74HC242P μPD4001BC μPD4584BC  (Top view)	M5218L 	10E2N 1SS132 HZ3B3 HZ5CLL HZ6B2L RD5.1EB2 	KV1260 
2SK152-3 	CXQ88501-451S  (Top view)	MB88521-158M  (Top view)	1SS133 HZ12A2L HZS9B2L HZS11C2L 	THS103A-1 
CX20108  (Top view)	LB1645N 	MSM5128-20GS  (Top view)		

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
901	*1-618-438-11	PC BOARD, CLOSE SW
902	*A-4644-290-A	MOUNTED PCB, DOOR LOCK
903	*1-618-425-11	PC BOARD, UP SW
904	*1-618-427-11	PC BOARD, RLS SW
905	*1-618-426-11	PC BOARD, HOLD SW
906	*1-618-424-11	PC BOARD, DISC SW
907	*1-618-447-11	PC BOARD, CHUCKING MID
908	*1-618-446-11	PC BOARD, CHUCKING ON
909	*1-618-445-11	PC BOARD, CHUCKING OFF
910	*A-4644-298-A	MOUNTED PCB, MOTOR OFF
911	*1-618-441-11	PC BOARD, TRAY SW
912	*A-4644-300-A	MOUNTED PCB, LIMIT SW
913	*1-618-442-11	PC BOARD, END SW
914	*A-4644-302-A	MOUNTED PCB, DIGITAL SW
915	*1-618-423-11	PC BOARD, MECH MEMORY
916	*1-618-422-11	PC BOARD, DOUBLE SENSOR
917	*1-618-430-11	PC BOARD, CARRIER
918	*A-4646-294-A	MOUNTED PCB, RELAY
919	*1-626-438-11	PC BOARD, FILTER
920	*A-4646-398-A	MOUNTED PCB, PITCH CONTROL
921	*A-4651-089-A	MOUNTED PCB, MAIN
922	*A-4652-028-A	MOUNTED PCB, CONNECTOR
923	*A-4655-028-A	MOUNTED PCB, LAMP (A)
924	*1-618-429-11	PC BOARD, CARRIER MOTOR
925	*1-618-428-11	PC BOARD, ARM MOTOR
926	*A-4656-015-A	MOUNTED PCB, CHUCKING MOTOR
927	*A-4655-031-A	MOUNTED PCB (B.C.), LAMP
928	1-558-483-11	WIRE, PVC (FLAT TYPE)(14 CORE)
929	1-558-484-11	WIRE, PVC (FLAT TYPE)(14 CORE)
930	1-558-485-11	WIRE, PVC (FLAT TYPE)(14 CORE)
931	Δ 1-556-563-11	CORD, POWER
932	1-807-494-11	ILLUMINATOR, LED
933	*A-4656-008-A	MOUNTED PCB, BSL MOTOR
934	A-4646-215-A	MOUNTED PCB, FLEXIBLE
935	*A-4688-007-A	MOUNTED PCB, RF
936	Δ X-4915-031-1	BASE UNIT ASSY, BU-1B
937	X-4915-840-1	CORD, CONNECTION (FLAT TYPE) ASSY
938	*A-4655-028-A	MOUNTED PCB, LAMP (A)
939	*1-618-449-11	PC BOARD, TRANSLATION
940	1-559-897-11	CORD, CONNECTION
C51	1-135-008-00	TANTAL. CHIP 2.2MF 20% 6.3V
C001A	1-131-373-91	(RF BOARD)..TANTALUM 22MF 10% 16V
C001B	1-123-875-11	(CONNECTOR BOARD) ...ELECT 10MF 20% 50V
C002	1-123-875-11	ELECT 10MF 20% 50V
C003	1-162-282-31	CERAMIC 100PF 10% 50V
C004	1-162-282-31	CERAMIC 100PF 10% 50V

Ref.No.	Part No.	Description
C005	1-123-875-11	ELECT 10MF 20% 50V
C006	1-123-875-11	ELECT 10MF 20% 50V
C007	1-123-875-11	ELECT 10MF 20% 50V
C008	1-123-875-11	ELECT 10MF 20% 50V
C009	1-123-875-11	ELECT 10MF 20% 50V
C010	1-162-282-31	CERAMIC 100PF 10% 50V
C011	1-162-282-31	CERAMIC 100PF 10% 50V
C012	1-123-875-11	ELECT 10MF 20% 50V
C013	1-123-875-11	ELECT 10MF 20% 50V
C014	1-123-875-11	ELECT 10MF 20% 50V
C015	1-123-380-00	ELECT 1MF 20% 100V
C016	1-123-380-00	ELECT 1MF 20% 100V
C017	1-162-851-11	CERAMIC 0.1MF 20% 16V
C018	1-162-851-11	CERAMIC 0.1MF 20% 16V
C019	1-124-478-11	ELECT 100MF 20% 25V
C020	1-124-478-11	ELECT 100MF 20% 25V
C021	1-124-478-11	ELECT 100MF 20% 25V
C022	1-124-478-11	ELECT 100MF 20% 25V
C023	1-161-379-00	CERAMIC 0.01MF 20% 16V
C101	1-161-377-00	CERAMIC 0.0047MF 10% 16V
C102	1-162-205-31	CERAMIC 18PF 5% 50V
C103	1-162-205-31	CERAMIC 18PF 5% 50V
C104	1-131-388-00	TANTALUM 68MF 20% 6.3V
C105	1-131-388-00	TANTALUM 68MF 20% 6.3V
C106	1-124-465-00	ELECT 0.47MF 20% 50V
C107	1-136-159-00	FILM 0.033MF 5% 50V
C108	1-162-282-31	CERAMIC 100PF 10% 50V
C109	1-162-282-31	CERAMIC 100PF 10% 50V
C111	1-136-159-00	FILM 0.033MF 5% 50V
C112	1-136-153-00	FILM 0.01MF 5% 50V
C113	1-136-165-00	FILM 0.1MF 5% 50V
C151	1-161-375-00	CERAMIC 0.0022MF 20% 16V
C152	1-161-375-00	CERAMIC 0.0022MF 20% 16V
C153	1-161-494-00	CERAMIC 0.022MF 30% 25V
C154	1-161-494-00	CERAMIC 0.022MF 30% 25V
C301	1-124-477-11	ELECT 47MF 20% 16V
C303	1-136-233-11	FILM 0.0047MF 5% 100V
C304	1-124-477-11	ELECT 47MF 20% 16V
C305	1-124-477-11	ELECT 47MF 20% 16V
C307	1-124-477-11	ELECT 47MF 20% 16V
C308	1-124-477-11	ELECT 47MF 20% 16V
C309	1-104-233-00	POLYSTYRENE 220PF 5% 125V
C310	1-104-228-00	POLYSTYRENE 0.0015MF 5% 125V
C311	1-126-101-11	ELECT 100MF 20% 16V
C313	1-123-330-00	ELECT 22MF 20% 16V
C314	1-101-884-00	CERAMIC 56PF 5% 50V

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description			
C315	1-161-377-00	CERAMIC	0.0047MF	20%	16V		C601	1-162-290-31	CERAMIC	470PF	10%	50V
C316	1-102-959-00	CERAMIC	22PF	5%	50V		C602	1-130-499-00	MYLAR	0.22MF	5%	50V
C318	1-126-101-11	ELECT	100MF	20%	16V		C603	1-130-495-00	MYLAR	0.1MF	5%	50V
C319	1-124-477-11	ELECT	47MF	20%	16V		C604	1-130-481-00	MYLAR	0.0068MF	5%	50V
C322	1-123-330-00	ELECT	22MF	20%	16V		C605	1-130-495-00	MYLAR	0.1MF	5%	50V
C323	1-123-330-00	ELECT	22MF	20%	16V		C606	1-124-499-11	ELECT	1MF	20%	50V
C325	1-126-101-11	ELECT	100MF	20%	16V		C607	1-162-286-31	CERAMIC	220PF	10%	50V
C401	1-124-477-11	ELECT	47MF	20%	16V		C608	1-102-963-00	CERAMIC	33PF	5%	50V
C403	1-136-233-11	FILM	0.0047MF	5%	100V		C609	1-130-483-00	MYLAR	0.01MF	5%	50V
C409	1-104-233-00	POLYSTYRENE	220PF	5%	125V		C610	1-123-356-00	ELECT	10MF	20%	16V
C410	1-104-228-00	POLYSTYRENE	0.0015MF	5%	125V		C611	1-124-499-11	ELECT	1MF	20%	50V
C411	1-126-101-11	ELECT	100MF	20%	16V		C613	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C451	1-130-495-00	MYLAR	0.1MF	5%	50V		C614	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C452	1-124-767-00	ELECT	2.2MF	20%	50V		C615	1-102-964-00	CERAMIC	36PF	5%	50V
C453	1-161-375-00	CERAMIC	0.0022MF	30%	16V		C616	1-102-976-00	CERAMIC	180PF	5%	50V
C454	1-161-375-00	CERAMIC	0.0022MF	30%	16V		C617	1-102-965-00	CERAMIC	39PF	5%	50V
C455	1-102-965-00	CERAMIC	39PF	5%	50V		C618	1-161-379-00	CERAMIC	0.01MF	20%	16V
C456	1-102-976-00	CERAMIC	180PF	5%	50V		C619	1-124-471-00	ELECT	1000MF	20%	6.3V
C457	1-102-973-00	CERAMIC	100PF	5%	50V		C620	1-161-494-00	CERAMIC	0.022MF		25V
C458	1-102-951-00	CERAMIC	15PF	5%	50V		C621	1-161-494-00	CERAMIC	0.022MF		25V
C459	1-161-379-00	CERAMIC	0.01MF	20%	16V		C630	1-124-443-00	ELECT	100MF	20%	10V
C460	1-123-356-00	ELECT	10MF	20%	16V		C631	1-124-443-00	ELECT	100MF	20%	10V
C462	1-102-964-00	CERAMIC	36PF	5%	50V		C635	1-123-356-00	ELECT	10MF	20%	16V
C463	1-162-294-31	CERAMIC	0.001MF	10%	50V		C701	1-124-499-11	ELECT	1MF	20%	50V
C464	1-162-294-31	CERAMIC	0.001MF	10%	50V		C702	1-130-487-00	MYLAR	0.022MF	5%	50V
C465	1-124-477-11	ELECT	47MF	20%	16V		C704	1-123-333-00	ELECT	100MF	20%	16V
C501	1-162-290-31	CERAMIC	470PF	10%	50V		C713	1-124-471-00	ELECT	1000MF	20%	6.3V
C502	1-130-499-00	MYLAR	0.22MF	5%	50V		C723	1-102-973-00	CERAMIC	100PF	5%	50V
C503	1-161-375-00	CERAMIC	0.0022MF	30%	16V		C724	1-102-973-00	CERAMIC	100PF	5%	50V
C504	1-102-980-00	CERAMIC	270PF	5%	50V		C725	1-123-356-00	ELECT	10MF	20%	16V
C505	1-161-375-00	CERAMIC	0.0022MF	30%	16V		C729	1-162-294-31	CERAMIC	0.001MF	10%	50V
C506	1-130-499-00	MYLAR	0.22MF	5%	50V		C735	1-124-360-00	ELECT	1000MF	20%	16V
C507	1-130-479-00	MYLAR	0.0047MF	5%	50V		C739	1-124-471-00	ELECT	1000MF	20%	6.3V
C508	1-130-487-00	MYLAR	0.022MF	5%	50V		C741	1-162-851-11	CERAMIC	0.1MF	20%	16V
C509	1-124-963-11	ELECT	33MF	20%	16V		C743	1-124-360-00	ELECT	1000MF	20%	16V
C510	1-130-495-00	MYLAR	0.1MF	5%	50V		C744	1-162-286-31	CERAMIC	220PF	10%	50V
C511	1-136-174-00	FILM	0.56MF	5%	50V		C745	1-162-286-31	CERAMIC	220PF	10%	50V
C512	1-130-475-00	MYLAR	0.0022MF	5%	50V		C746	1-162-286-31	CERAMIC	220PF	10%	50V
C513	1-130-487-00	MYLAR	0.022MF	5%	50V		C747	1-124-963-11	ELECT	33MF	20%	10V
C514	1-130-495-00	MYLAR	0.1MF	5%	50V		C748	1-124-443-00	ELECT	100MF	20%	10V
C515	1-123-333-00	ELECT	100MF	20%	16V		C752	1-162-851-11	CERAMIC	0.1MF	20%	16V
C516	1-123-333-00	ELECT	100MF	20%	16V		C753	1-162-851-11	CERAMIC	0.1MF	20%	16V
C517	1-130-499-00	MYLAR	0.22MF	5%	50V		C754	1-162-851-11	CERAMIC	0.1MF	20%	16V
C518	1-130-491-00	MYLAR	0.047MF	5%	50V		C755	1-162-851-11	CERAMIC	0.1MF	20%	16V
C519	1-162-294-31	CERAMIC	0.001MF	10%	50V		C770	1-123-356-00	ELECT	10MF	20%	16V
C520	1-130-489-00	MYLAR	0.033MF	5%	50V		C771	1-130-495-00	MYLAR	0.1MF	5%	50V
C521	1-162-294-31	CERAMIC	0.001MF	10%	50V		C801	1-161-772-11	CERAMIC	0.1MF	10%	25V
C522	1-130-475-00	MYLAR	0.0022MF	5%	50V		C802	1-124-963-11	ELECT	33MF	20%	16V
C523	1-123-333-00	ELECT	100MF	20%	16V		C803	1-162-219-31	CERAMIC	68PF	5%	50V
C524	1-123-333-00	ELECT	100MF	20%	16V		C804	1-124-963-11	ELECT	33MF	20%	16V
C525	1-136-173-00	FILM	0.47MF	5%	50V		C805	1-161-772-11	CERAMIC	0.1MF	10%	25V
C526	1-131-365-00	TANTALUM	10MF	10%	16V		C806	1-124-963-11	ELECT	33MF	20%	16V
C528	1-136-173-00	FILM	0.47MF	5%	50V		C808	1-124-963-11	ELECT	33MF	20%	16V
C529	1-130-483-00	MYLAR	0.01MF	5%	50V		C811	1-124-963-11	ELECT	33MF	20%	16V
C534	1-123-306-00	ELECT	47MF	20%	10V		C812	1-162-205-31	CERAMIC	18PF	5%	50V
C535	1-123-356-00	ELECT	10MF	20%	16V		C813	1-136-171-00	FILM	0.33MF	5%	50V
C536	1-123-875-11	ELECT	10MF	20%	50V		C814	1-136-159-00	FILM	0.033MF	5%	50V

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C815	1-162-293-31	CERAMIC	820PF	10%	50V	CNP305*1	-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	2P		
C816	1-162-217-31	CERAMIC	56PF	5%	50V	CNP410*1	-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	6P		
C817	1-124-963-11	ELECT	33MF	20%	16V	CNP411*1	-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	4P		
C818	1-124-963-11	ELECT	33MF	20%	16V	CNP501*1	-564-509-11	PLUG, CONNECTOR 6P			
C819	1-124-963-11	ELECT	33MF	20%	16V	CNP601*1	-564-341-11	PIN, CONNECTOR 7P			
C820	1-126-320-11	ELECT	10MF	20%	16V	CNP611*1	-564-338-00	PIN, CONNECTOR 4P			
C835	1-161-379-00	CERAMIC	0.01MF	30%	16V	CNP701	1-563-187-11	SOCKET, CONNECTOR 14P			
C836	1-161-379-00	CERAMIC	0.01MF	30%	16V	CNP702	1-563-187-11	SOCKET, CONNECTOR 14P			
C837	1-161-379-00	CERAMIC	0.01MF	30%	16V	CNP703	1-563-187-11	SOCKET, CONNECTOR 14P			
C901	1-124-360-00	ELECT	1000MF	20%	16V	CNP704	1-563-187-11	SOCKET, CONNECTOR 14P			
C903	1-124-966-11	ELECT	10000MF	20%	25V	CNP705	1-563-187-11	SOCKET, CONNECTOR 14P			
C904	1-126-103-11	ELECT	470MF	20%	16V	CNP706	1-563-187-11	SOCKET, CONNECTOR 14P			
C905	1-124-119-00	ELECT	330MF	20%	16V	CNP707	1-565-411-21	SOCKET, CONNECTOR 14P			
C907	1-124-965-11	ELECT	10000MF	20%	16V	CNP711*1	-560-076-00	PIN, CONNECTOR			
C908	1-124-471-00	ELECT	1000MF	20%	6.3V	CNP712*1	-564-506-11	PLUG, CONNECTOR 3P			
C914	1-124-471-00	ELECT	1000MF	20%	6.3V	CNP713*1	-564-505-11	PLUG, CONNECTOR 2P			
C917	1-124-360-00	ELECT	1000MF	20%	16V	CNP714*1	-564-505-11	PLUG, CONNECTOR 2P			
C920	1-123-379-00	ELECT	0.47MF	20%	50V	CNP719*1	-564-517-11	PLUG, CONNECTOR 2P			
C921	1-124-443-00	ELECT	100MF	20%	10V	CNP720*1	-564-517-11	PLUG, CONNECTOR 2P			
C951	1-124-360-00	ELECT	1000MF	20%	16V	CNP726*1	-564-521-11	PLUG, CONNECTOR 6P			
C953	1-124-966-11	ELECT	10000MF	20%	25V	CNP727*1	-564-523-11	PLUG, CONNECTOR 8P			
C954	1-126-103-11	ELECT	470MF	20%	16V	CNP728*1	-564-517-11	PLUG, CONNECTOR 2P			
C955	1-124-119-00	ELECT	330MF	20%	16V	CNP734*1	-564-518-11	PLUG, CONNECTOR 3P			
C957	1-124-965-11	ELECT	10000MF	20%	16V	CNP751*1	-564-511-11	PLUG, CONNECTOR 8P			
C958	1-124-471-00	ELECT	1000MF	20%	6.3V	CNP760*1	-564-338-00	PIN, CONNECTOR 4P			
C965	1-123-379-00	ELECT	0.47MF	20%	50V	CNP761*1	-564-340-00	PIN, CONNECTOR 6P			
C966	1-161-375-00	CERAMIC	0.0022MF	30%	16V	CNP762*1	-564-339-00	PIN, CONNECTOR 5P			
C975	△ 1-161-744-00	CERAMIC	0.01MF		400V	CNP763*1	-564-666-11	PIN, CONNECTOR 10P			
C976	△ 1-161-744-00	CERAMIC	0.01MF		400V	CNP764*1	-564-339-00	PIN, CONNECTOR 5P			
C977	△ 1-161-742-00	CERAMIC	0.0022MF	20%	400V	CNP765*1	-564-336-00	PIN, CONNECTOR 2P			
C978	△ 1-161-742-00	CERAMIC	0.0022MF	20%	400V	CNP803*1	-564-342-11	PIN, CONNECTOR 8P			
C979	1-161-742-00	CERAMIC	0.0022MF	20%	400V	CNP804*1	-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	6P		
C980	1-161-742-00	CERAMIC	0.0022MF	20%	400V	CNP805*1	-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P	4P		
CB901	△ 1-532-538-00	BREAKER, CIRCUIT				CNP902*1	-535-139-00	BASE POST 19MM (10MM PITCH) 2P	2P		
CNJ001	1-563-358-11	CONNECTOR, D SUB 15P				CNP903*1	-535-139-00	BASE POST 19MM (10MM PITCH) 2P	2P		
CNJ002	1-563-357-11	CONNECTOR, D SUB 9P				CNP951*1	-535-116-00	TERMINAL			
CNJ003	1-563-359-11	CONNECTOR, D SUB 25P				CNP952*1	-535-116-00	TERMINAL			
CNJ004	1-563-359-11	CONNECTOR, D SUB 25P				CNP961*1	-564-338-00	PIN, CONNECTOR 4P			
CNJ101	1-564-733-11	SOCKET, CONNECTOR				CNP962*1	-564-338-00	PIN, CONNECTOR 4P			
CNJ102	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				D51	8-719-901-33	DIODE 1SS133			
CNJ104	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				D101	8-719-911-06	DIODE 1SS106			
CNJ151	*1-560-073-00	PIN, CONNECTOR				D102	8-719-911-06	DIODE 1SS106			
CNJ251	1-507-659-11	JACK (HEADPHONES)				D103	8-719-911-06	DIODE 1SS106			
CNP001	*1-564-339-00	PIN, CONNECTOR 5P				D501	8-719-940-76	DIODE 1SS132			
CNP002	*1-564-340-00	PIN, CONNECTOR 6P				D504	8-719-940-76	DIODE 1SS132			
CNP003	*1-564-507-11	PLUG, CONNECTOR 4P				D505	8-719-940-76	DIODE 1SS132			
CNP005	*1-564-497-11	PIN, CONNECTOR 4P				D506	8-719-951-13	DIODE HZ5CLL			
CNP006	*1-564-501-11	PIN, CONNECTOR 8P				D611	8-719-936-68	DIODE KV1260			
CNP008	*1-564-497-11	PIN, CONNECTOR 4P				D621	8-719-936-68	DIODE KV1260			
CNP009	*1-564-500-11	PIN, CONNECTOR 7P				D701	8-719-933-74	DIODE HZS12A2L			
CNP206	*1-564-506-11	PLUG, CONNECTOR 3P				D702	8-719-914-11	DIODE HZ4ALL			
CNP207	*1-564-506-11	PLUG, CONNECTOR 3P				D703	8-719-933-70	DIODE HZS11C2L			
CNP208	*1-564-509-11	PLUG, CONNECTOR 6P				D704	8-719-933-57	DIODE HZS982L			
CNP209	*1-564-507-11	PLUG, CONNECTOR 4P				D705	8-719-200-77	DIODE 10E2N			
CNP301	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				D708	8-719-904-55	DIODE GL-5HD5			
CNP302	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P				D711	8-719-904-55	DIODE GL-5HD5			
CNP303	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P									
CNP304	*1-564-507-11	PLUG, CONNECTOR 4P									

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
D713-A	8-719-904-55	DIODE GL-5HD5
D713-B	8-719-952-51	DIODE AA5525S
D716	8-719-940-76	DIODE 1SS132
D753	8-719-933-74	DIODE HZS12A2L
D754	8-719-933-74	DIODE HZS12A2L
D755	8-719-933-57	DIODE HZS9B2L
D773	8-719-910-65	DIODE HZ6B2L
D801	8-719-100-30	DIODE RD5.1EB2
D901	8-719-200-31	DIODE 21DQ05
D902	8-719-200-77	DIODE 1OE2N
D903	8-719-200-77	DIODE 1OE2N
D904	8-719-200-77	DIODE 1OE2N
D905	8-719-200-77	DIODE 1OE2N
D906	8-719-200-31	DIODE 21DQ05
D951	8-719-200-31	DIODE 21DQ05
D952	8-719-200-77	DIODE 1OE2N
D953	8-719-200-77	DIODE 1OE2N
D956	8-719-200-31	DIODE 21DQ05
D991	8-719-933-74	DIODE HZS12A2L
D992	8-719-200-77	DIODE 1OE2N
H151	8-719-800-18	DIODE THS103A-1
H152	8-719-800-18	DIODE THS103A-1
IB801	1-236-114-11	RES, NETWORK
IC001A	8-759-923-61	(RF BOARD).....IC IR3C02AN
IC001B	8-759-745-61	(CONNECTOR BOARD)...IC NJM4560D-D
IC002	8-759-745-61	IC NJM4560D-D
IC003	8-759-745-61	IC NJM4560D-D
IC004	8-759-745-61	IC NJM4560D-D
IC005	8-759-140-50	IC UPD14050BC
IC006	8-759-140-50	IC UPD14050BC
IC007	8-757-700-00	IC CX-770
IC008	8-759-901-57	IC SN74LS157N
IC009	8-759-901-57	IC SN74LS157N
IC101	8-752-010-90	IC CX20109
IC102	8-759-700-43	IC NJM4558M
IC151	8-759-145-58	IC UPC4558C
IC301	8-759-701-21	IC NJM5532D-D
IC302	8-759-910-75	IC LF353DP
IC303	8-752-015-20	IC CX20152
IC304	8-759-340-53	IC HD14053BP
IC402	8-759-910-75	IC LF353DP
IC451	8-759-990-82	IC TL082CP
IC501	8-752-010-80	IC CX20108
IC502	8-759-700-58	IC NJM4558D-FA
IC601	8-759-140-53	IC UPD4053BC
IC603	8-752-328-62	IC CXD1125Q
IC604	1-752-320-44	IC CXK5816M-10L
IC605	8-759-990-82	IC TL082CP
IC607	8-757-925-20	IC CX-7925B
IC608	8-759-601-02	IC M5218P
IC610	8-759-001-05	IC MC74HCU04N
IC701	8-759-982-97	IC MB88521-202M
IC702	8-759-802-76	IC LB1645N
IC704	8-759-982-93	IC MB88501-699M
IC705	8-759-925-63	IC MSM6404A-117GS-K
IC707	8-759-802-76	IC LB1645N
IC708	8-759-802-76	IC LB1645N
IC710	8-759-802-76	IC LB1645N
IC711	8-759-001-05	IC MC74HCU04N
IC712	8-759-001-05	IC MC74HCU04N

Ref.No.	Part No.	Description
IC714	8-759-202-93	IC TC74HC153P
IC715	8-759-202-93	IC TC74HC153P
IC716	8-759-001-05	IC MC74HCU04N
IC717	8-759-001-05	IC MC74HCU04N
IC721	8-759-203-14	IC TC74LS242P
IC722	8-759-203-14	IC TC74LS242P
IC725	8-759-700-81	IC NJM555D
IC726	8-759-140-01	IC UPD4001BC
IC801	8-759-202-74	IC TC74HCU04P
IC802	8-759-803-19	IC LM6416E-2094
IC803	8-759-929-47	IC MB81464-10
IC804	8-759-001-05	IC MC74HCU04N
IC805	8-759-910-81	IC CX23037
IC806	8-759-910-80	IC CX23036
IC808	8-759-202-27	IC TC74HC157P
IC809	8-759-600-02	IC M5218L
IC810	8-759-600-02	IC M5218L
IC901	8-759-700-06	IC NJM7812B
IC902	8-759-700-06	IC NJM7812B
IC903	8-759-700-51	IC NJM7805A
IC904	8-759-179-12	IC UPC7912H
IC905	8-759-179-12	IC UPC7912H
IC909	8-759-145-84	IC UPD4584BC
IC910	8-759-925-54	IC LM2940CT-5.0
IC911	8-759-604-47	IC M5F7905
IC912	8-759-700-51	IC NJM7805A
IC913	8-759-171-15	IC UPC7815H
L51	1-408-563-51	INDUCTOR 10UH
L303	1-410-509-11	INDUCTOR 100UH
L701	1-410-509-11	INDUCTOR 10UH
L702	1-408-117-00	INDUCTOR 10UH
L703	1-410-521-11	INDUCTOR 100UH
L704	1-410-521-11	INDUCTOR 100UH
L705	1-410-521-11	INDUCTOR 100UH
L706	1-410-521-11	INDUCTOR 100UH
L707	1-410-521-11	INDUCTOR 100UH
L708	1-408-117-00	INDUCTOR 10UH
L709	1-410-521-11	INDUCTOR 100UH
L801	1-408-080-00	INDUCTOR 100UH
L802	1-410-331-21	INDUCTOR 33UH
LG901	4-870-539-00	PLATE, GROUND
LPF301	1-464-846-11	FILTER UNIT, LOW PASS
LPF401	1-464-846-11	FILTER UNIT, LOW PASS
M53	1-422-197-14	COIL (DRIVE)
M701	A-4608-329-A	MOTOR (C) ASSY, CHUKING
M702	A-4608-325-A	MOTOR (A) ASSY, CARRIER
M703	A-4608-327-A	MOTOR (B) ASSY, ARM
PL701	1-518-594-11	LAMP, PILOT
PL702	1-518-594-11	LAMP, PILOT
PL703	1-518-594-11	LAMP, PILOT
PS701	1-454-411-11	SOLENOID, PLUNGER
PS951A	1-532-675-00	LINK, IC (1.5A)
PS952A	1-532-675-00	LINK, IC (1.5A)
PS953A	1-532-687-00	LINK, IC (1.0A)
PS954A	1-532-687-00	LINK, IC (1.0A)
PS955A	1-532-685-00	LINK, IC (0.8A)
PS956A	1-532-685-00	LINK, IC (0.8A)
PS957A	1-532-685-00	LINK, IC (0.8A)

Note: The components identified by mark **A** or dotted line with mark **A** are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
Q001	8-729-900-89	TRANSISTOR DTC144ES
Q002	8-729-806-20	TRANSISTOR 2SA1345
Q003	8-729-806-20	TRANSISTOR 2SA1345
Q004	8-729-900-89	TRANSISTOR DTC144ES
Q005	8-729-900-89	TRANSISTOR DTC144ES
Q006	8-729-900-89	TRANSISTOR DTC144ES
Q007	8-729-900-89	TRANSISTOR DTC144ES
Q151	8-729-206-49	TRANSISTOR 2SC3666Y
Q152	8-729-206-43	TRANSISTOR 2SA1426Y
Q153	8-729-206-49	TRANSISTOR 2SC3666Y
Q154	8-729-206-43	TRANSISTOR 2SA1426Y
Q301	8-729-107-99	TRANSISTOR 2SC3622A-K
Q302	8-729-800-43	TRANSISTOR 2SK152-3
Q303	8-729-107-99	TRANSISTOR 2SC3622A-K
Q401	8-729-107-99	TRANSISTOR 2SC3622A-K
Q402	8-729-800-43	TRANSISTOR 2SK152-3
Q403	8-729-107-99	TRANSISTOR 2SC3622A-K
Q501	8-729-206-49	TRANSISTOR 2SC3666Y
Q502	8-729-206-43	TRANSISTOR 2SA1426Y
Q503	8-729-206-49	TRANSISTOR 2SC3666Y
Q504	8-729-206-43	TRANSISTOR 2SA1426Y
Q505	8-729-206-49	TRANSISTOR 2SC3666Y
Q506	8-729-206-43	TRANSISTOR 2SA1426Y
Q507	8-729-117-54	TRANSISTOR 2SA1175
Q508	8-729-600-27	TRANSISTOR 2SC634SP
Q601	8-729-806-28	TRANSISTOR 2SC3402
Q707	8-729-900-89	TRANSISTOR DTC144ES
Q714	8-729-806-28	TRANSISTOR 2SC3402
Q715	8-729-806-28	TRANSISTOR 2SC3402
Q721	8-729-806-28	TRANSISTOR 2SC3402
Q722	8-729-806-28	TRANSISTOR 2SC3402
Q723	8-729-806-28	TRANSISTOR 2SC3402
Q751	8-729-806-20	TRANSISTOR 2SA1345
Q753	8-729-900-74	TRANSISTOR DTC143TS
Q770	8-729-806-20	TRANSISTOR 2SA1345
Q771	8-729-900-89	TRANSISTOR DTC144ES
Q772	8-729-900-89	TRANSISTOR DTC144ES
Q773	8-729-600-60	TRANSISTOR 2SA1115P
Q901	8-729-900-61	TRANSISTOR 2SA1348
Q902	8-729-806-28	TRANSISTOR 2SC3402
Q907	8-729-600-27	TRANSISTOR 2SC634SP
Q908	8-729-600-27	TRANSISTOR 2SC634SP
Q910	8-729-900-61	TRANSISTOR 2SA1348
Q911	8-729-806-28	TRANSISTOR 2SC3402
Q991	8-729-900-74	TRANSISTOR DTC143TS
Q992	8-729-900-74	TRANSISTOR DTC143TS
Q993	8-729-900-74	TRANSISTOR DTC143TS
Q994	8-729-900-74	TRANSISTOR DTC143TS
RO01A	1-249-405-11	(RF BOARD).....CARBON 100 5% 1/4W
RO01B	1-247-887-00	(CONNECTOR BOARD)...CARBON 220K 5% 1/4W
RO02A	1-249-429-11	(RF BOARD).....CARBON 10K 5% 1/4W
RO02B	1-247-887-00	(CONNECTOR BOARD)...CARBON 220K 5% 1/4W
RO03A	1-249-397-11	(RF BOARD).....CARBON 22 5% 1/4W
RO03B	1-249-429-11	(CONNECTOR BOARD)...CARBON 10K 5% 1/4W
RO04	1-249-429-11	CARBON 10K 5% 1/4W
RO05	1-249-429-11	CARBON 10K 5% 1/4W
RO06	1-249-429-11	CARBON 10K 5% 1/4W
RO07	1-247-848-11	CARBON 5.1K 5% 1/4W

Ref.No.	Part No.	Description
RO09	1-247-903-00	CARBON 1M 5% 1/4W
RO10	1-247-887-00	CARBON 220K 5% 1/4W
RO11	1-247-887-00	CARBON 220K 5% 1/4W
RO12	1-249-429-11	CARBON 10K 5% 1/4W
RO13	1-249-429-11	CARBON 10K 5% 1/4W
RO14	1-249-429-11	CARBON 10K 5% 1/4W
RO15	1-249-429-11	CARBON 10K 5% 1/4W
RO16	1-247-848-11	CARBON 5.1K 5% 1/4W
RO18	1-247-903-00	CARBON 1M 5% 1/4W
RO19	1-249-429-11	CARBON 10K 5% 1/4W
RO20	1-249-429-11	CARBON 10K 5% 1/4W
RO21	1-249-441-11	CARBON 100K 5% 1/4W
RO22	1-249-441-11	CARBON 100K 5% 1/4W
RO23	1-249-405-11	CARBON 100 5% 1/4W
RO24	1-249-405-11	CARBON 100 5% 1/4W
RO25	1-249-429-11	CARBON 10K 5% 1/4W
RO26	1-249-429-11	CARBON 10K 5% 1/4W
RO27	1-249-441-11	CARBON 100K 5% 1/4W
RO28	1-249-441-11	CARBON 100K 5% 1/4W
RO29	1-249-405-11	CARBON 100 5% 1/4W
RO30	1-249-405-11	CARBON 100 5% 1/4W
RO31	1-249-437-11	CARBON 47K 5% 1/4W
RO32	1-249-437-11	CARBON 47K 5% 1/4W
RO33	1-249-429-11	CARBON 10K 5% 1/4W
RO34	1-249-437-11	CARBON 47K 5% 1/4W
RO35	1-249-429-11	CARBON 10K 5% 1/4W
RO36	1-249-429-11	CARBON 10K 5% 1/4W
RO37	1-249-429-11	CARBON 10K 5% 1/4W
RO38	1-249-437-11	CARBON 47K 5% 1/4W
RO39	1-249-437-11	CARBON 47K 5% 1/4W
RO41	1-249-437-11	CARBON 47K 5% 1/4W
RO42	1-249-437-11	CARBON 47K 5% 1/4W
RO43	1-249-437-11	CARBON 47K 5% 1/4W
RO44	1-249-437-11	CARBON 47K 5% 1/4W
RO45	1-249-437-11	CARBON 47K 5% 1/4W
RO46	1-249-437-11	CARBON 47K 5% 1/4W
RO50	1-249-417-11	CARBON 1K 5% 1/4W
RO51	1-249-417-11	CARBON 1K 5% 1/4W
RO52	1-249-417-11	CARBON 1K 5% 1/4W
RO53	1-249-417-11	CARBON 1K 5% 1/4W
R101	1-249-429-11	CARBON 10K 5% 1/4W
R102	1-249-432-11	CARBON 18K 5% 1/4W
R103	1-249-429-11	CARBON 10K 5% 1/4W
R104	1-247-893-11	CARBON 390K 5% 1/4W
R105	1-247-883-00	CARBON 150K 5% 1/4W
R106	1-249-441-11	CARBON 100K 5% 1/4W
R107	1-249-429-11	CARBON 10K 5% 1/4W
R108	1-247-881-00	CARBON 120K 5% 1/4W
R109	1-247-884-11	CARBON 160K 5% 1/4W
R110	1-247-895-00	CARBON 470K 5% 1/4W
R113	1-249-433-11	CARBON 22K 5% 1/4W
R114	1-247-895-00	CARBON 470K 5% 1/4W
R115	1-249-439-11	CARBON 68K 5% 1/4W
R116	1-247-903-00	CARBON 1M 5% 1/4W
R117	1-249-425-11	CARBON 4.7K 5% 1/4W
R151	1-249-417-11	CARBON 1K 5% 1/4W
R152	1-249-417-11	CARBON 1K 5% 1/4W
R153	1-249-417-11	CARBON 1K 5% 1/4W

Ref.No.	Part No.	Description			
R154	1-249-417-11	CARBON	1K	5%	1/4W
R155	1-249-417-11	CARBON	1K	5%	1/4W
R156	1-249-417-11	CARBON	1K	5%	1/4W
R157	1-247-887-00	CARBON	220K	5%	1/4W
R158	1-247-887-00	CARBON	220K	5%	1/4W
R159	1-247-887-00	CARBON	220K	5%	1/4W
R160	1-247-887-00	CARBON	220K	5%	1/4W
R301	1-249-409-11	CARBON	220	5%	1/4W
R302	1-249-425-11	CARBON	4.7K	5%	1/4W
R303	1-249-425-11	CARBON	4.7K	5%	1/4W
R304	1-247-903-00	CARBON	1M	5%	1/4W
R305	1-249-429-11	CARBON	10K	5%	1/4W
R306	1-249-413-11	CARBON	470	5%	1/4W
R307	1-247-844-11	CARBON	3.6K	5%	1/4W
R308	1-249-423-11	CARBON	3.3K	5%	1/4W
R309	1-249-424-11	CARBON	3.9K	5%	1/4W
R310	1-247-850-11	CARBON	6.2K	5%	1/4W
R311	1-249-431-11	CARBON	15K	5%	1/4W
R312	1-249-421-11	CARBON	2.2K	5%	1/4W
R314	1-249-419-11	CARBON	1.5K	5%	1/4W
R315	1-249-425-11	CARBON	4.7K	5%	1/4W
R316	1-249-436-11	CARBON	39K	5%	1/4W
R318	1-249-425-11	CARBON	4.7K	5%	1/4W
R319	1-249-409-11	CARBON	220	5%	1/4W
R320	1-249-441-11	CARBON	100K	5%	1/4W
R401	1-249-409-11	CARBON	220	5%	1/4W
R402	1-249-425-11	CARBON	4.7K	5%	1/4W
R403	1-249-425-11	CARBON	4.7K	5%	1/4W
R404	1-247-903-00	CARBON	1M	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-249-413-11	CARBON	470	5%	1/4W
R407	1-247-844-11	CARBON	3.6K	5%	1/4W
R408	1-249-423-11	CARBON	3.3K	5%	1/4W
R409	1-249-424-11	CARBON	3.9K	5%	1/4W
R410	1-247-850-11	CARBON	6.2K	5%	1/4W
R411	1-249-431-11	CARBON	15K	5%	1/4W
R412	1-249-421-11	CARBON	2.2K	5%	1/4W
R419	1-249-409-11	CARBON	220	5%	1/4W
R420	1-249-441-11	CARBON	100K	5%	1/4W
R451	1-247-844-11	CARBON	3.6K	5%	1/4W
R452	1-249-429-11	CARBON	10K	5%	1/4W
R453	1-249-429-11	CARBON	10K	5%	1/4W
R454	1-249-419-11	CARBON	1.5K	5%	1/4W
R455	1-249-441-11	CARBON	100K	5%	1/4W
R456	1-249-441-11	CARBON	100K	5%	1/4W
R457	1-247-838-00	CARBON	2K	5%	1/4W
R458	1-249-427-11	CARBON	6.8K	5%	1/4W
R459	1-249-441-11	CARBON	100K	5%	1/4W
R460	1-249-441-11	CARBON	100K	5%	1/4W
R461	1-249-441-11	CARBON	100K	5%	1/4W
R462	1-249-441-11	CARBON	100K	5%	1/4W
R463	1-249-429-11	CARBON	10K	5%	1/4W
R464	1-249-429-11	CARBON	10K	5%	1/4W
R465	1-249-429-11	CARBON	10K	5%	1/4W
R466	1-247-895-00	CARBON	470K	5%	1/4W
R501	1-249-434-11	CARBON	27K	5%	1/4W
R502	1-249-427-11	CARBON	6.8K	5%	1/4W
R503	1-249-405-11	CARBON	100	5%	1/4W

Ref.No.	Part No.	Description			
R504	1-249-435-11	CARBON	33K	5%	1/4W
R505	1-249-405-11	CARBON	100	5%	1/4W
R506	1-247-883-00	CARBON	150K	5%	1/4W
R507	1-247-899-11	CARBON	680K	5%	1/4W
R508	1-249-409-11	CARBON	220	5%	1/4W
R509	1-249-425-11	CARBON	4.7K	5%	1/4W
R510	1-249-411-11	CARBON	330	5%	1/4W
R511	1-247-881-00	CARBON	120K	5%	1/4W
R512	1-249-436-11	CARBON	39K	5%	1/4W
R513	1-249-436-11	CARBON	39K	5%	1/4W
R514	1-249-417-11	CARBON	1K	5%	1/4W
R515	1-247-903-00	CARBON	1M	5%	1/4W
R516	1-249-424-11	CARBON	3.9K	5%	1/4W
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-249-423-11	CARBON	3.3K	5%	1/4W
R519	1-249-431-11	CARBON	15K	5%	1/4W
R520	1-249-417-11	CARBON	1K	5%	1/4W
R521	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-249-429-11	CARBON	10K	5%	1/4W
R523	1-247-895-00	CARBON	470K	5%	1/4W
R524	1-249-422-11	CARBON	2.7K	5%	1/4W
R527	1-249-430-11	CARBON	12K	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W
R529	1-249-429-11	CARBON	10K	5%	1/4W
R530	1-249-420-11	CARBON	1.8K	5%	1/4W
R531	1-249-441-11	CARBON	100K	5%	1/4W
R532	1-249-431-11	CARBON	15K	5%	1/4W
R533	1-249-427-11	CARBON	6.8K	5%	1/4W
R534	1-249-417-11	CARBON	1K	5%	1/4W
R535	1-249-435-11	CARBON	33K	5%	1/4W
R536	1-247-864-11	CARBON	24K	5%	1/4W
R537	1-249-427-11	CARBON	6.8K	5%	1/4W
R538	1-247-895-00	CARBON	470K	5%	1/4W
R539	1-247-895-00	CARBON	470K	5%	1/4W
R540	1-249-433-11	CARBON	22K	5%	1/4W
R541	1-249-429-11	CARBON	10K	5%	1/4W
R542	1-249-425-11	CARBON	4.7K	5%	1/4W
R545	1-249-417-11	CARBON	1K	5%	1/4W
R547	1-249-422-11	CARBON	2.7K	5%	1/4W
R548	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-249-435-11	CARBON	33K	5%	1/4W
R601	1-247-887-00	CARBON	220K	5%	1/4W
R602	1-249-423-11	CARBON	3.3K	5%	1/4W
R603	1-249-436-11	CARBON	39K	5%	1/4W
R604	1-249-951-11	CARBON	15K	1%	1/4W
R605	1-247-193-00	CARBON	22K	1%	1/4W
R606	1-249-433-11	CARBON	22K	5%	1/4W
R607	1-247-856-00	CARBON	11K	5%	1/4W
R608	1-247-856-00	CARBON	11K	5%	1/4W
R609	1-249-943-11	CARBON	6.8K	1%	1/4W
R610	1-247-903-00	CARBON	1M	5%	1/4W
R611	1-249-943-11	CARBON	6.8K	1%	1/4W
R612	1-247-854-11	CARBON	9.1K	5%	1/4W
R613	1-247-193-00	CARBON	22K	1%	1/4W
R614	1-247-721-11	CARBON	4.7K	1%	1/4W
R615	1-247-193-00	CARBON	22K	1%	1/4W
R616	1-249-422-11	CARBON	2.7K	5%	1/4W

Ref.No.	Part No.	Description			
R617	1-249-430-11	CARBON	12K	5%	1/4W
R618	1-247-838-00	CARBON	2K	5%	1/4W
R619	1-249-440-11	CARBON	82K	5%	1/4W
R620	1-249-433-11	CARBON	22K	5%	1/4W
R621	1-249-429-11	CARBON	10K	5%	1/4W
R623	1-249-441-11	CARBON	100K	5%	1/4W
R624	1-249-441-11	CARBON	100K	5%	1/4W
R625	1-249-441-11	CARBON	100K	5%	1/4W
R626	1-249-417-11	CARBON	1K	5%	1/4W
R627	1-249-417-11	CARBON	1K	5%	1/4W
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
R703	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-249-441-11	CARBON	100K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
R706	1-249-441-11	CARBON	100K	5%	1/4W
R708	1-249-425-11	CARBON	4.7K	5%	1/4W
R709	1-249-417-11	CARBON	1K	5%	1/4W
R710	1-249-407-11	CARBON	150	5%	1/4W
R711	1-249-407-11	CARBON	150	5%	1/4W
R712	1-249-407-11	CARBON	150	5%	1/4W
R713	1-249-407-11	CARBON	150	5%	1/4W
R714	1-249-407-11	CARBON	150	5%	1/4W
R715	1-249-407-11	CARBON	150	5%	1/4W
R716	1-249-407-11	CARBON	150	5%	1/4W
R717	1-249-407-11	CARBON	150	5%	1/4W
R718	1-249-425-11	CARBON	4.7K	5%	1/4W
R719	1-249-425-11	CARBON	4.7K	5%	1/4W
R720	1-249-425-11	CARBON	4.7K	5%	1/4W
R721	1-249-441-11	CARBON	100K	5%	1/4W
R728	1-249-411-11	CARBON	330	5%	1/4W
R733	1-249-407-11	CARBON	150	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
R743	1-249-420-11	CARBON	1.8K	5%	1/4W
R744	1-249-420-11	CARBON	1.8K	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W
R755	1-249-441-11	CARBON	100K	5%	1/4W
R756	1-249-441-11	CARBON	100K	5%	1/4W
R757	1-249-441-11	CARBON	100K	5%	1/4W
R758	1-247-903-00	CARBON	1M	5%	1/4W
R759	1-247-903-00	CARBON	1M	5%	1/4W
R760	1-247-903-00	CARBON	1M	5%	1/4W
R762	1-249-420-11	CARBON	1.8K	5%	1/4W
R763	1-249-420-11	CARBON	1.8K	5%	1/4W
R764	1-249-420-11	CARBON	1.8K	5%	1/4W

Ref.No.	Part No.	Description			
R765	1-249-420-11	CARBON	1.8K	5%	1/4W
R766	1-249-420-11	CARBON	1.8K	5%	1/4W
R767	1-249-420-11	CARBON	1.8K	5%	1/4W
R768	1-249-420-11	CARBON	1.8K	5%	1/4W
R769	1-249-441-11	CARBON	100K	5%	1/4W
R770	1-249-429-11	CARBON	10K	5%	1/4W
R785	1-249-432-11	CARBON	18K	5%	1/4W
R786	1-247-872-11	CARBON	51K	5%	1/4W
R787	1-249-429-11	CARBON	10K	5%	1/4W
R791	1-249-420-11	CARBON	1.8K	5%	1/4W
R792	1-249-420-11	CARBON	1.8K	5%	1/4W
R793	1-249-420-11	CARBON	1.8K	5%	1/4W
R794	1-249-420-11	CARBON	1.8K	5%	1/4W
R795	1-249-420-11	CARBON	1.8K	5%	1/4W
R796	1-249-420-11	CARBON	1.8K	5%	1/4W
R797	1-249-420-11	CARBON	1.8K	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-429-11	CARBON	10K	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-249-437-11	CARBON	47K	5%	1/4W
R807	1-249-437-11	CARBON	47K	5%	1/4W
R808	1-249-437-11	CARBON	47K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-249-417-11	CARBON	1K	5%	1/4W
R813	1-249-429-11	CARBON	10K	5%	1/4W
R814	1-249-429-11	CARBON	10K	5%	1/4W
R815	1-249-429-11	CARBON	10K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-429-11	CARBON	10K	5%	1/4W
R818	1-249-429-11	CARBON	10K	5%	1/4W
R819	1-249-429-11	CARBON	10K	5%	1/4W
R820	1-249-429-11	CARBON	10K	5%	1/4W
R823	1-249-433-11	CARBON	22K	5%	1/4W
R824	1-249-423-11	CARBON	3.3K	5%	1/4W
R825	1-247-892-11	CARBON	360K	5%	1/4W
R826	1-247-892-11	CARBON	360K	5%	1/4W
R827	1-249-417-11	CARBON	1K	5%	1/4W
R828	1-249-409-11	CARBON	220	5%	1/4W
R829	1-249-441-11	CARBON	100K	5%	1/4W
R830	1-249-417-11	CARBON	1K	5%	1/4W
R838	1-247-892-11	CARBON	360K	5%	1/4W

Ref.No.	Part No.	Description
R840	1-249-429-11	CARBON 10K 5% 1/4W
R841	1-247-903-00	CARBON 1M 5% 1/4W
R842	1-249-429-11	CARBON 10K 5% 1/4W
R843	1-249-429-11	CARBON 10K 5% 1/4W
R905	1-249-429-11	CARBON 10K 5% 1/4W
R906	1-249-435-11	CARBON 33K 5% 1/4W
R907	1-247-881-00	CARBON 120K 5% 1/4W
R908	1-249-429-11	CARBON 10K 5% 1/4W
R909	1-249-393-11	CARBON 10 5% 1/4W
R918	1-249-436-11	CARBON 39K 5% 1/4W
R919	1-249-436-11	CARBON 39K 5% 1/4W
R920	1-249-441-11	CARBON 100K 5% 1/4W
R921	1-249-441-11	CARBON 100K 5% 1/4W
R978	1-249-436-11	CARBON 39K 5% 1/4W
R979	1-249-436-11	CARBON 39K 5% 1/4W
R991	1-249-413-11	CARBON 470 5% 1/4W
RV001	1-226-772-11	RES, ADJ, METAL GLAZE 4.7K
RV101	1-226-704-11	RES, ADJ, METAL GLAZE 470K
RV102	1-226-773-11	RES, ADJ, METAL GLAZE 22K
RV501	1-226-703-11	RES, ADJ, METAL GLAZE 10K
RV502	1-226-703-11	RES, ADJ, METAL GLAZE 10K
RV602	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K
RV701	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K
S1	Δ.1-553-575-21	SWITCH, SEESAW (POWER)
S702	1-570-561-11	SWITCH, MICRO
S713	1-570-560-11	SWITCH, ROTARY
S750	1-554-303-21	SWITCH, KEY BOARD (RST)
S751	1-554-303-21	SWITCH, KEY BOARD (PREV)
S752	1-554-303-21	SWITCH, KEY BOARD (NEXT)
S753	1-554-303-21	SWITCH, KEY BOARD (PAUSE)
S754	1-554-303-21	SWITCH, KEY BOARD (PLAY)
S755	1-570-863-11	SWITCH, SLIDE (TEST)
S756	1-554-303-21	SWITCH, KEY BOARD (RLS)
S761	1-552-539-00	SWITCH, KEY BOARD (DOOR OPEN)
S771	1-554-303-21	SWITCH, KEY BOARD (TEST)
S772	1-554-303-21	SWITCH, KEY BOARD (A.F)
S773	1-554-303-21	SWITCH, KEY BOARD (A.R)
S774	1-554-303-21	SWITCH, KEY BOARD (C-L)
S775	1-554-303-21	SWITCH, KEY BOARD (HOLD)
S776	1-570-863-11	SWITCH, SLIDE (1/60)
S777	1-554-303-21	SWITCH, KEY BOARD (C-R)
SE51	1-422-198-11	COIL (SENSOR)

Ref.No.	Part No.	Description
T1	Δ.1-449-103-11	TRANSFORMER, POWER
T301	1-406-123-11	COIL (OSC)
T601	1-426-212-11	COIL (RF)
T610	1-426-212-11	COIL (RF)
T901	1-421-340-00	LINE FILTER
TP701	*1-560-061-00	PIN, CONNECTOR 3P
X301	1-567-336-11	VIBRATOR, CRYSTAL (67.2MHz)
X601	1-567-301-11	OSCILLATOR, CRYSTAL (8.4672MHz)
X701	1-527-822-00	OSCILLATOR, CERAMIC (4MHz)

Electrical Parts for Mechanism

CNP151*	1-560-073-00	PIN, CONNECTOR
CNP708	1-563-188-11	SOCKET, CONNECTOR 14P
CNP710*	1-560-071-00	PIN, CONNECTOR
CNP722*	1-564-505-31	PLUG, CONNECTOR 2P
CNP723*	1-564-505-11	PLUG, CONNECTOR 2P
CNP724*	1-564-505-41	PLUG, CONNECTOR 2P
CNP725*	1-564-521-11	PLUG, CONNECTOR 6P
CNP729*	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CNP730*	1-564-705-21	PIN, CONNECTOR (SMALL TYPE) 3P
CNP735*	1-564-517-41	PLUG, CONNECTOR 2P
CNP736*	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CNP737*	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CNP738*	1-564-704-31	PIN, CONNECTOR (SMALL TYPE) 2P
CNP739*	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P
CNP740*	1-564-705-31	PIN, CONNECTOR (SMALL TYPE) 3P
CNP741*	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
PH701	8-719-801-84	TLP802
PH702	8-719-801-84	TLP802
PH703	8-719-801-84	TLP802
S701	1-570-561-11	SWITCH, MICRO
S703	1-570-561-11	SWITCH, MICRO
S705	1-570-561-11	SWITCH, MICRO
S706	1-570-561-11	SWITCH, MICRO
S707	1-570-028-11	SWITCH, MICRO
S708	1-570-561-11	SWITCH, MICRO
S709	1-570-561-11	SWITCH, MICRO
S710	1-570-561-11	SWITCH, MICRO
S714	1-570-562-11	SWITCH, MICRO
S715	1-570-561-11	SWITCH, MICRO
SW990	1-570-026-11	DIGITAL SWITCH, SMALL

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

CDK-3000P_{II}

SONY SERVICE MANUAL

UK Model

SUPPLEMENT-2

File this supplement with the service manual.

Subject :

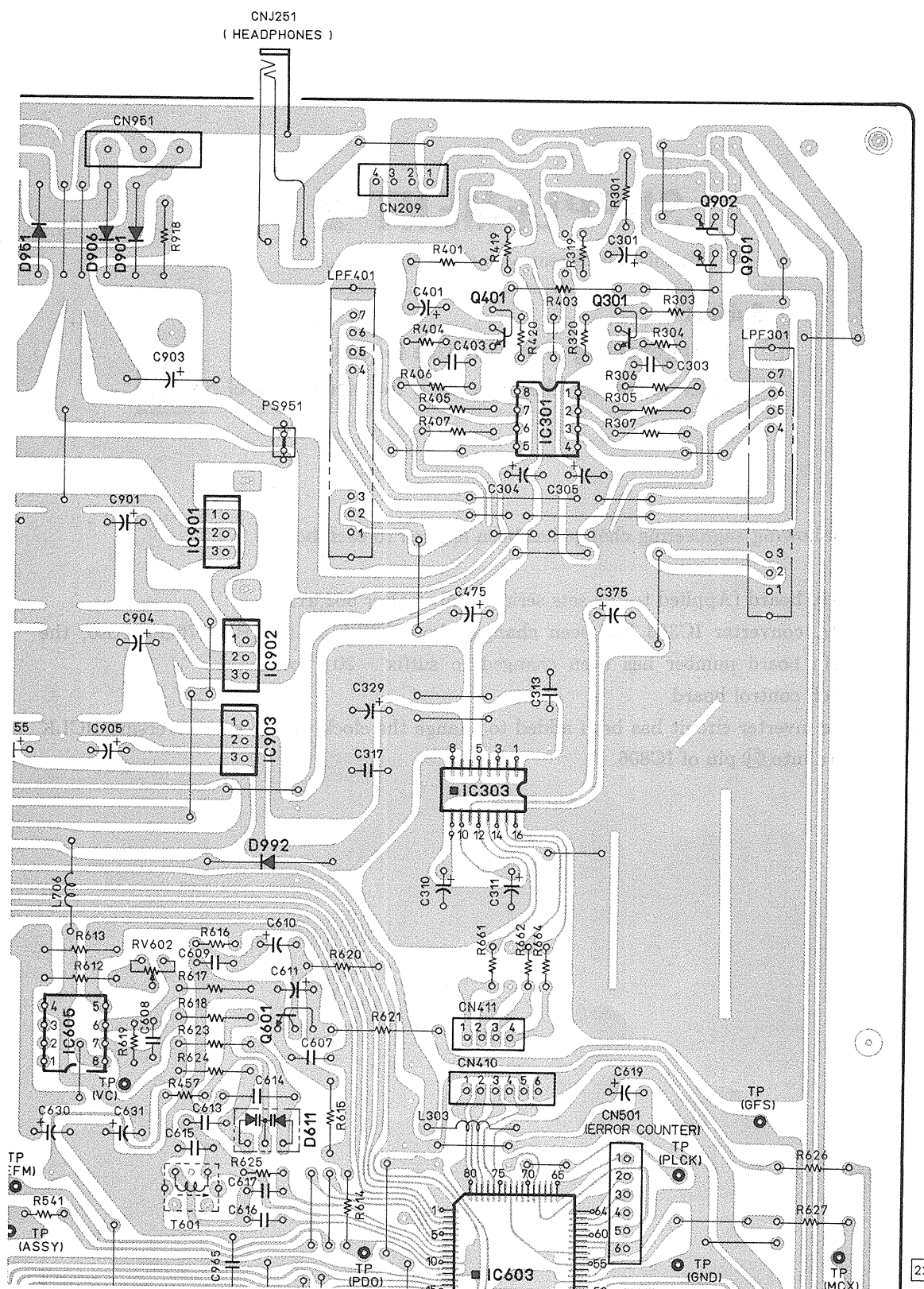
1. Engineering change notice for main board.
2. Engineering change notice for pitch control board.

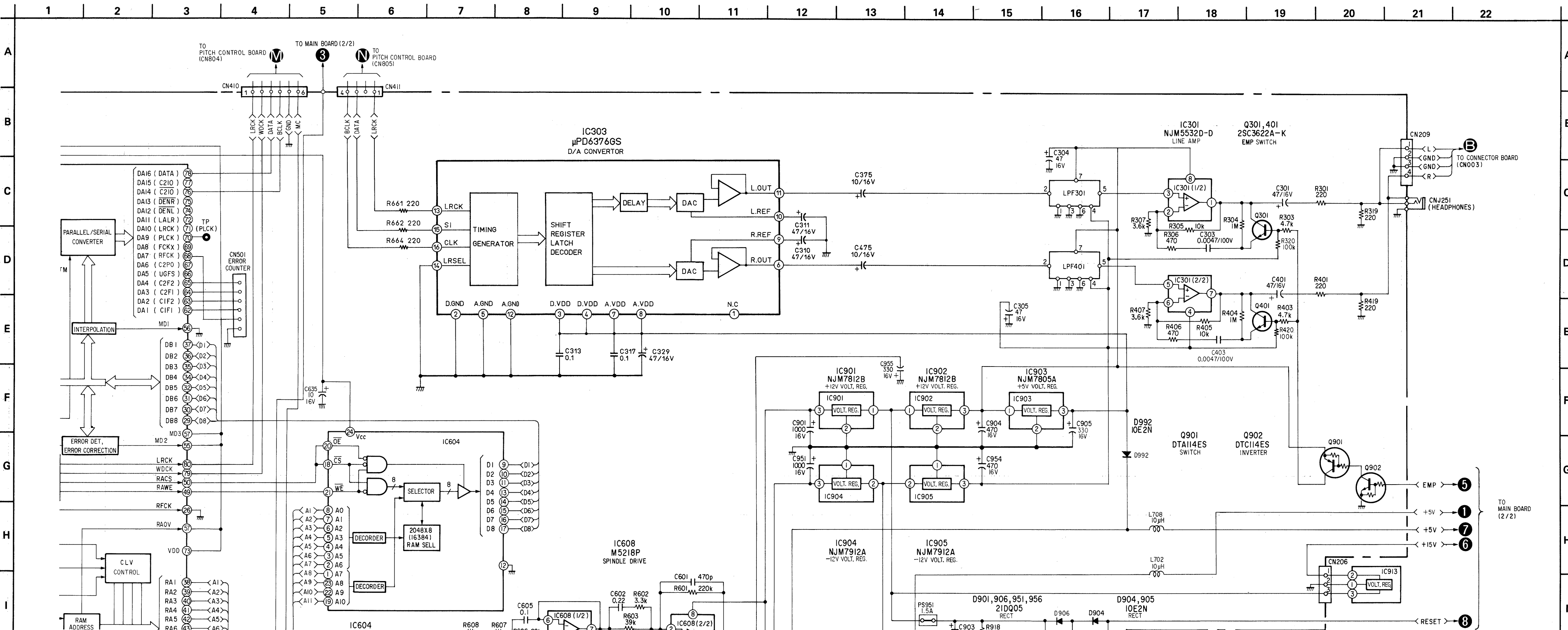
The following engineering change has been applied to each boards.

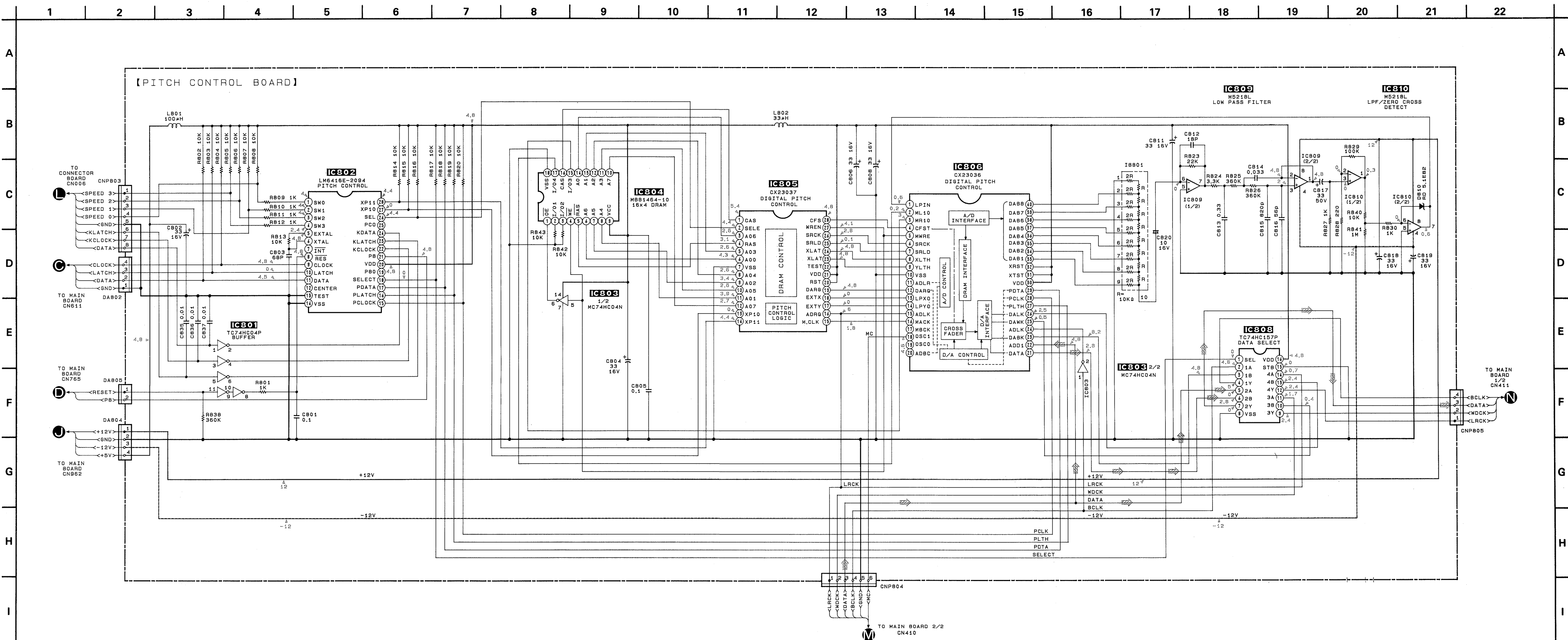
1. Main board (Applied to the sets serial number after 602,411.)
D/A converter IC303 has been changed from CX20152 to μ PD6376GS. Also, the main board number has been changed to suffix - 20 type.
2. Pitch control board
The inverter circuit has been added to change the clock timing with reversing BCLK data into ②4 pin of IC806.

● **PRINTED WIRING BOARD**

[MAIN BOARD]







• ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
	* A-4651-089-A	MOUNTED PCB, MAIN *****
C310	1-124-477-11	ELECT 47 μ F 20% 16V
C311	1-124-477-11	ELECT 47 μ F 20% 16V
C313	1-164-159-11	CERAMIC 0.1 μ F 50V
C317	1-164-159-11	CERAMIC 0.1 μ F 50V
C329	1-124-477-11	ELECT 47 μ F 20% 16V
C375	1-124-915-11	ELECT 10 μ F 20% 16V
C475	1-124-915-11	ELECT 10 μ F 20% 16V
IC303	8-759-148-30	IC μ PD6376GS
R661	1-249-409-11	CARBON 220 5% 1/4W
R662	1-249-409-11	CARBON 220 5% 1/4W
R664	1-249-409-11	CARBON 220 5% 1/4W
	* A-4646-398-A	MOUNTED PCB, PITCH CONTROL *****
C805	1-161-772-11	CERAMIC 0.1 μ F 10% 25V
IC803	8-759-916-14	IC SN74HC04AN
L801	1-408-080-00	INDUCTOR 100 μ H

CDK-3000P II

SONY[®] SERVICE MANUAL

UK Model

CORRECTION-2

File this correction with the service manual.

Home Position Adjustment Correction

Page 34

[Home Position Adjustment]

1. Put the set into the test mode.
(See page 33 in the service manual.)
2. Confirm the W sensor position adjustment is done.
3. Move the carrier fully right with pushing RIGHT switch (S777).
4. Take out the CD case and loosen the screw in the following figure. When the screw is locked with the locking compound, wipe it with the alcohol.

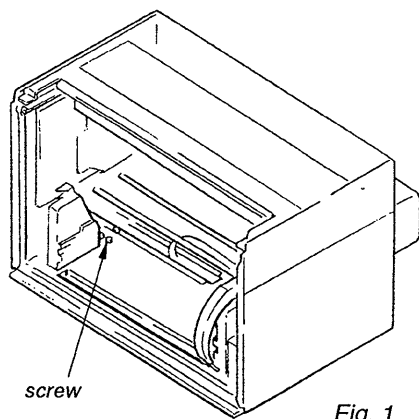


Fig. 1

5. Fully open the chucking arm with pushing RLS switch (S776).
6. Completely open the claws of the carrier arm with pressing A-F switch (S772) over and over again.
7. Move the carrier fully left with pushing LEFT switch (S774).
8. Install a disc on the spindle of the base unit by hand, and make it chucking with pushing HOLD switch (S775). At MID position, the chucking arm is stopped once. Push HOLD switch (S775) again.
9. Push the carrier bearing position gradually to left by hand as following figure. When the vibration caused by the carrier motor starting to rotate is felt, gradually return it to right. When the carrier motor stops rotating, let go of the carrier gently. At this time, check the position of two claws on the top and the bottom of the carrier arm. (See Fig. 4)

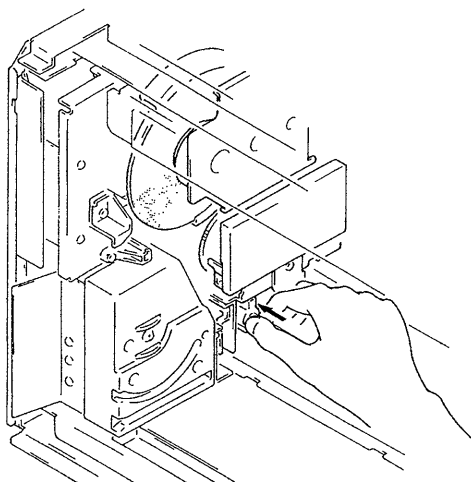


Fig. 2

10. Pull the carrier plate ass'y gradually to right by hand as following figure. When the vibration caused by the carrier motor starting to rotate is felt, gradually return it to right. When the carrier motor stops rotating, let go of the carrier plate ass'y. At this time, check the position of two claws in the same manner as the item 9. (See Fig. 4)

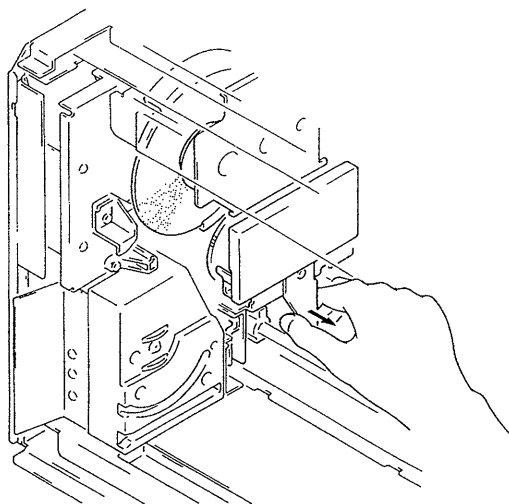


Fig. 3

11. Adjust so that the position of two claws in the items 9 and 10 becomes $a=b$ as the following figure by inserting the hexagonal wrench to the adjusting hole and turning it.

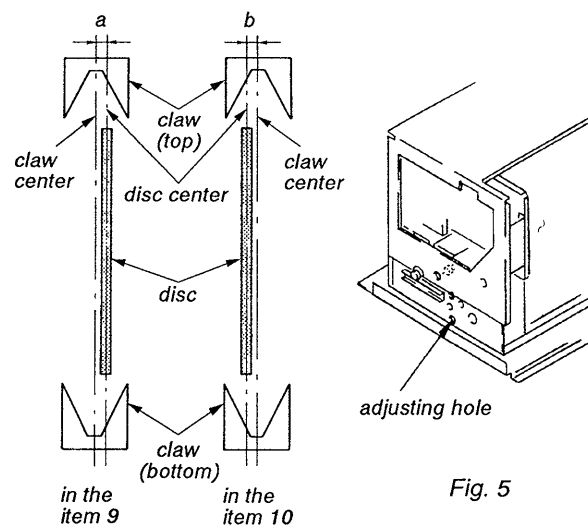


Fig. 4

Fig. 5

12. Tighten the stopper screw loosened in the item 4. Don't use the screw locking compound.